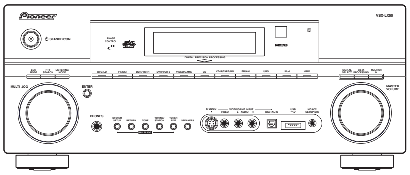
Pioneer sound.vision.soul

Service Manual



VSX-LX50

ORDER NO.
RRV3598

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-LX50
VSX-91TXH
VSX-9120TXH-K

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-LX50	HYXJ5	AC 220 V to 230V	
VSX-91TXH	KUXJ/CA	AC 120 V	
VSX-9120TXH-K	KUXJ	AC 120 V	

For details, refer to "Important Check Points for good servicing".

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SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

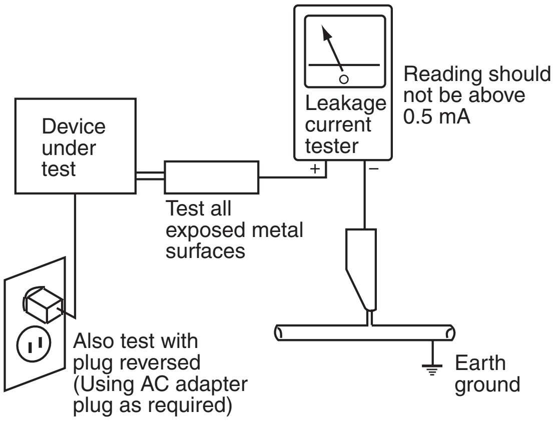
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Device under test
Leakage current tester
Reading should not be above 0.5 mA
+
−
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 ºC.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 ºC in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

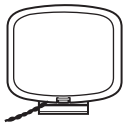
The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

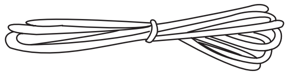
2. SPECIFICATIONS

2.1 ACCESSORIES

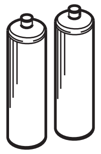
● Accessories



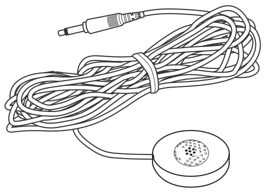
AM Loop Antenna
(ATB7013)



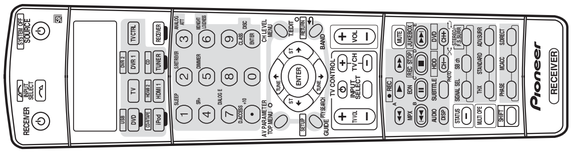
FM Wire Antenna
(ADH7030)



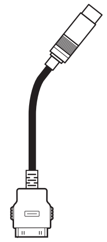
AA/LR6 Dry Cell Batteries
(VEM1031)



Setup Microphone
(for Auto MCACC setup)
(APM7008)



Remote Control Unit
(AXD7491: VSX-LX50)
(AXD7490: VSX-91TXH)
(AXD7497: VSX-9120TXH-K)



Audio Control Cable for iPod
(XDE7025)

KU models only

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2.2 SPECIFICATIONS

● VSX-LX50

Amplifier section

Continuous Power Output (Stereo)

Front	150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
	120 W + 120 W (DIN 1 kHz, THD 1 %, 8 Ω)

Continuous Power Output (Multichannel)

Front	150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
	120 W + 120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Center	150 W (DIN 1 kHz, THD 1 %, 6 Ω)
	120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Surround	150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
	120 W + 120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Surround back	150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
	120 W + 120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Rated Power Output	130 W + 130 W (20 Hz to 20 kHz, 0.09 %, 6 Ω)
Rated Power Output	110 W + 110 W (20 Hz to 20 kHz, 0.09 %, 8 Ω)

- The above specifications are applicable when the power supply is 230V.

Audio Section

Input (Sensitivity/Impedance)	
LINE	335 mV/47 kΩ
Frequency Response(LINE)	5 Hz to 100 000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)	
REC	335 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+4 dB / +2 dB (100 Hz/10 kHz) (at volume position –40 dB)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
LINE	103 dB
Signal-to-Noise Ratio [DIN (continuous rated power output/50 mW)]	
LINE	92 dB / 65 dB

Composite Video / S-Video Section

Input (Sensitivity/Impedance)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 10 MHz

Component Video Section

Input (Sensitivity/Impedance)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 100 MHz

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 15.2 dBf, IHF (1.6 μV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 41.2 dBf
Sensitivity (DIN)	Mono: 1.1 μV (S/N 26 dB) Stereo: 50 μV (S/N 46 dB)
Signal-to-Noise Ratio	Mono: 76 dB (at 85 dBf) Stereo: 72 dB (at 85 dBf)
Signal-to-Noise Ratio (DIN)	Mono: 62 dB Stereo: 58 dB
Distortion	Stereo: 0.6 % (1 kHz)
Alternate Channel Selectivity	70 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz ± 1 dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	531 kHz to 1602 kHz (9 kHz step)
Sensitivity (IHF, Loop antenna)	350 μV/m
Selectivity	30 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 220 V to 230 V, 50 Hz / 60 Hz
Power Consumption	450 W
In standby	0.6 W
Dimensions	420 (W) mm x 173 (H) mm x 465 (D) mm
Weight (without package)	15.3 kg

Furnished Parts

Setup microphone (for Auto MCACC setup)	1
AA/IEC R6P dry cell batteries	2
Remote control unit	1
AM loop antenna	1
FM wire antenna	1
Warranty card	1
Operating instructions	

Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

● VSX-91TXH/VSX-9120TXH-K

Amplifier section

Continuous average power output of 110 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.09 %** total harmonic distortion (front).

Continuous Power Output (20 Hz to 20 kHz, 8 Ω, 0.09 %)

Front	110 W + 110 W
Center	110 W
Surround	110 W + 110 W
Surround back	110 W + 110 W

Continuous Power Output (1 kHz, 6 Ω, 1.0 %)

Front	150 W + 150 W
Center	150 W
Surround	150 W + 150 W
Surround back	150 W + 150 W

Total harmonic distortion	0.09 % (20 Hz to 20 kHz, 110 W, 8 Ω)

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers
** Measured by Audio Spectrum Analyzer

Audio Section

Input (Sensitivity/Impedance)	
LINE	335 mV/47 kΩ
Frequency Response (LINE)	5 Hz to 100 000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)	
REC	335 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+4 dB / +2 dB (100 Hz/10 kHz) (at volume position –40 dB)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
LINE	103 dB
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	
LINE	83 dB

Composite Video / S-Video Section

Input (Sensitivity/Impedance)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 10 MHz

Component Video Section

Input (Sensitivity/Impedance)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 100 MHz

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 13.2 dBf, IHF (1.3 µV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 38.6 dBf
Signal-to-Noise Ratio	Mono: 73 dB (at 85 dBf) Stereo: 70 dB (at 85 dBf)
Distortion	Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity	60 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz ± 1 dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	530 kHz to 1700 kHz
Sensitivity (IHF, Loop antenna)	350 µV/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60 Hz
Power Consumption	490 W, 650 VA
In standby	0.65 W
AC Outlet	(switched) 100 W MAX.
Dimensions	420 (W) mm x 173 (H) mm x 465 (D) mm (16 9/16 (W) in. x 6 13/16 (H) in. x 18 5/16 (D) in.)
Weight (without package)	15.3 kg (33 lbs 12 oz)

Furnished Parts

Setup microphone (for Auto MCACC setup)	1
AA/IEC R6P dry cell batteries	2
Remote control unit	1
AM loop antenna	1
FM wire antenna	1
Warranty card	1
Operating instructions	
(*) Audio Control cable for iPod	1

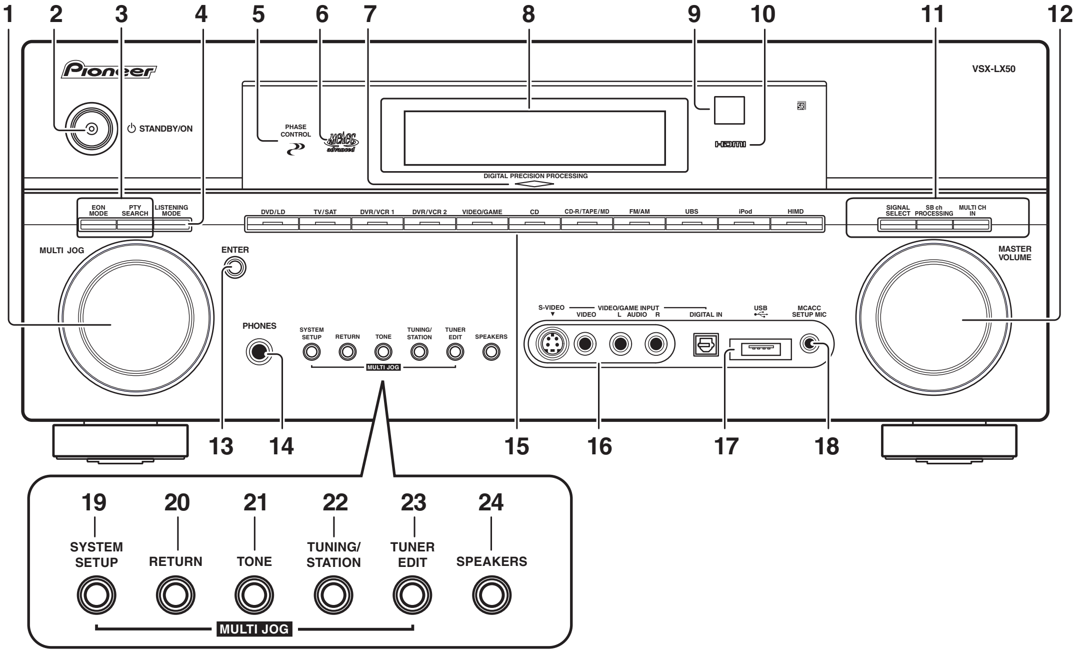
Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

(*) KU models only

2.3 PANEL FACILITIES

● Front Panel (VSX-LX50)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12
VSX-LX50
STANDBY/ON
PHASE CONTROL
DIGITAL PRECISION PROCESSING
EON MODE
PTY SEARCH
LISTENING MODE
DVD/LD
TV/SAT
DVR/VCR 1
DVR/VCR 2
VIDEO/GAME
CD
CD-R/TAPE/MD
FM/AM
UBS
iPod
HIMD
SIGNAL SELECT
SB ch PROCESSING
MULTI CH IN
MULTI JOG
ENTER
MASTER VOLUME
PHONES
SYSTEM SETUP
RETURN
TONE
TUNING/ STATION
TUNER EDIT
SPEAKERS
MULTI JOG
S-VIDEO
VIDEO/GAME INPUT
VIDEO
L AUDIO R
DIGITAL IN
USB
MCACC SETUP MIC
13
14
15
16
17
18
19
20
21
22
23
24
SYSTEM SETUP
RETURN
TONE
TUNING/ STATION
TUNER EDIT
SPEAKERS
MULTI JOG

1 MULTI JOG dial
Use the **MULTI JOG** dial to select various settings and menu options.

2 ⏻ STANDBY/ON
Switches the receiver between on and standby. Power indicator lights when the receiver is on.

3 EON MODE
Use to search for programs that are broadcasting traffic or news information.

PTY SEARCH
Use this button to search for RDS program types.

4 LISTENING MODE
Use with the **MULTI JOG** dial to select the various listening modes.

5 PHASE CONTROL indicator
Lights when the Phase Control is switched on.

6 MCACC indicator
Lights when one of the MCACC presets is selected.

7 DIGITAL PRECISION PROCESSING indicator
Lights to indicate digital processing.

8 Character display
See Display on.

9 Remote sensor
Receives the signals from the remote control.

10 HDMI indicator
Blinks when connecting an HDMI-equipped component; lights when the component is connected.

11 SIGNAL SELECT
Use to select an input signal.

SB ch PROCESSING – Selects the surround back channel mode or virtual surround back mode.
MULTI CH IN – Press to select the multichannel analog inputs.

12 MASTER VOLUME dial

13 ENTER

14 PHONES jack
Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

15 Input source buttons
Press to select an input source.

16 VIDEO/GAME INPUT

17 USB interface
Connect a USB audio device for playback.

18 MCACC SETUP MIC jack
Use to connect the supplied microphone.

19 SYSTEM SETUP
Press to access the System Setup menu.

20 RETURN
Press to confirm and exit the current menu screen.

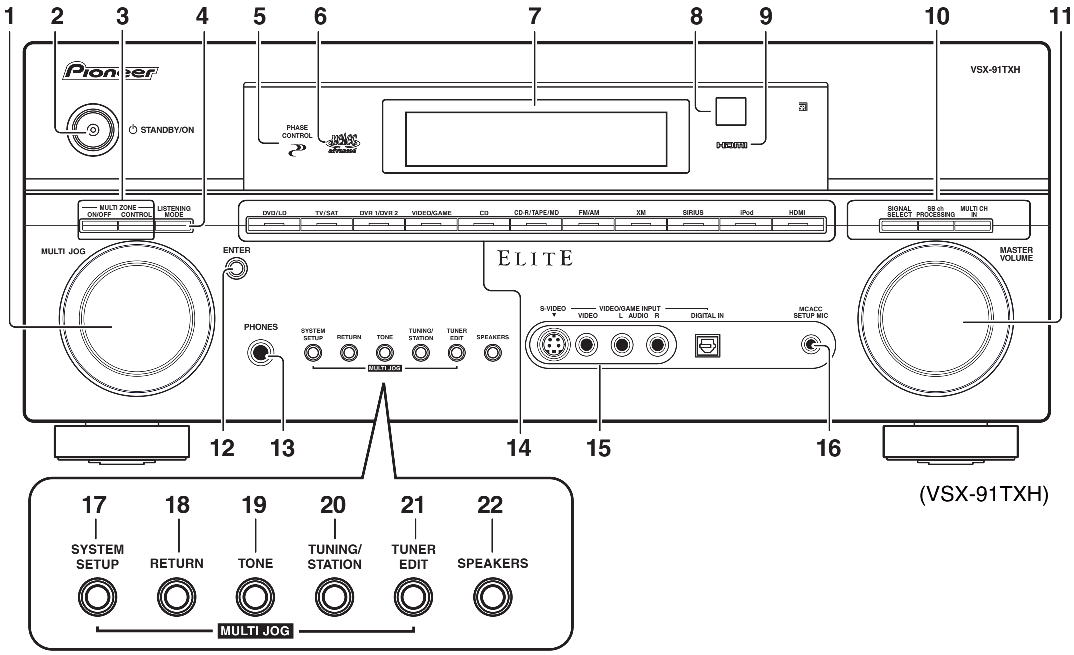
21 TONE
Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG** dial.

22 TUNING/STATION
Use to find radio frequencies and to select preset stations.

23 TUNER EDIT
Use with the **MULTI JOG** dial to memorize and name stations for recall.

24 SPEAKERS
Use to change the speaker system.

● Front Panel (VSX-91TXH/VSX-9120TXH-K)


1
2
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4
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6
7
8
9
10
11
Pioneer
VSX-91TXH
STANDBY/ON
PHASE CONTROL
MCACC advanced
HDMI
MULTI ZONE
ON/OFF
CONTROL
LISTENING MODE
DVD/LD
TV/SAT
DVR 1/DVR 2
VIDEO/GAME
CD
CD-R/TAPE/MD
FM/AM
XM
SIRIUS
iPod
HDMI
SIGNAL SELECT
SB ch PROCESSING
MULTI CH IN
MULTI JOG
ENTER
ELITE
MASTER VOLUME
PHONES
SYSTEM SETUP
RETURN
TONE
TUNING/STATION
TUNER EDIT
SPEAKERS
MULTI JOG
S-VIDEO
VIDEO/GAME INPUT
VIDEO
L AUDIO R
DIGITAL IN
MCACC SETUP MIC
12
13
14
15
16
17
18
19
20
21
22
SYSTEM SETUP
RETURN
TONE
TUNING/ STATION
TUNER EDIT
SPEAKERS
MULTI JOG

(VSX-91TXH)

1 MULTI JOG dial
Use the **MULTI JOG** dial to select various settings and menu options.

2 ⏻ STANDBY/ON
Switches the receiver between on and standby. Power indicator lights when the receiver is on.

3 MULTI ZONE controls
If you've made MULTI-ZONE connections use these controls to control the sub zone from the main zone.

4 LISTENING MODE
Use with the **MULTI JOG** dial to select the various listening modes.

5 PHASE CONTROL indicator
Lights when Phase Control is switched on.

6 MCACC indicator
Lights when one of the MCACC presets is selected.

7 Character display

8 Remote sensor
Receives the signals from the remote control.

9 HDMI indicator
Blinks when connecting an HDMI-equipped component; lights when the component is connected.

10 SIGNAL SELECT
Use to select an input signal.

SB ch PROCESSING – Selects the surround back channel mode or virtual surround back mode.

MULTI CH IN – Press to select the multichannel analog inputs.

11 MASTER VOLUME dial

12 ENTER

13 PHONES jack
Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

14 Input source buttons
Press to select an input source.

15 VIDEO/GAME INPUT

16 MCACC SETUP MIC jack
Use to connect the supplied microphone.

17 SYSTEM SETUP
Press to access the System Setup menu.

18 RETURN
Press to confirm and exit the current menu screen.

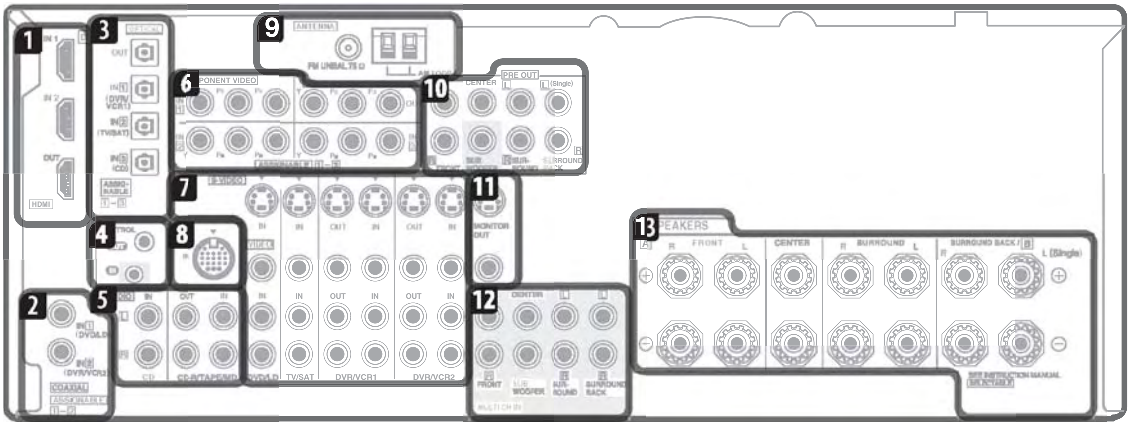
19 TONE
Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG** dial.

20 TUNING/STATION
Use to find radio frequencies and to select preset stations.

21 TUNER EDIT
Use with the **MULTI JOG** dial to memorize and name stations for recall.

22 SPEAKERS
Use to change the speaker system.

● Rear Panel (VSX-LX50)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IN 1
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OUT
HDMI
OPTICAL
ANTENNA
FM UNBAL 75 Ω
AM LOOP
COMPONENT VIDEO
PRE OUT
CENTER
S-VIDEO
VIDEO
MONITOR OUT
SPEAKERS
FRONT
CENTER
SURROUND
SURROUND BACK
COAXIAL
ASSIGNABLE
CD
CD-R/TAPE/MD
DVD/LD
TV/SAT
DVR/VCR1
DVR/VCR2
MULTI CH IN
FRONT
SUB WOOFER
SURROUND
SURROUND BACK

Caution

- Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

1 HDMI connectors (x3)
Two inputs and one output for high-quality audio/video connection to compatible HDMI devices.

2 Coaxial digital audio inputs (x2)
Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

3 Optical digital audio output/input(s) (x4)
Use the **OUT** jack for recording to a CD or MiniDisc recorder.
Use the **IN** jacks for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

4 Control input/output
Use to connect other Pioneer components so that you can control all your equipment from a single IR remote sensor.

5 Stereo analog audio source inputs/(outputs) (x3)
Use for connection to audio sources such as CD players, tape decks, turntables, etc.

6 Component video connections (x4)
Use the inputs to connect any video source that has component video output, such as a DVD recorder. Use the output for connection to a monitor or TV.

7 Audio/video source inputs/(outputs) (x6)
Use for connection to audio/visual sources, such as DVD players/recorders, VCRs, etc. Each set of inputs has jacks for composite video, S-video and stereo analog audio.

8 iPod input terminal
Use to connect your Apple iPod as an audio source.

9 AM and FM antenna terminals
Use to connect indoor or outdoor antennas for radio broadcasts.

10 Multichannel pre-amplifier outputs
Use to connect separate amplifiers for front, center, surround, surround back and subwoofer channels.

11 Composite and S-video monitor outputs
Use to connect monitors and TVs.

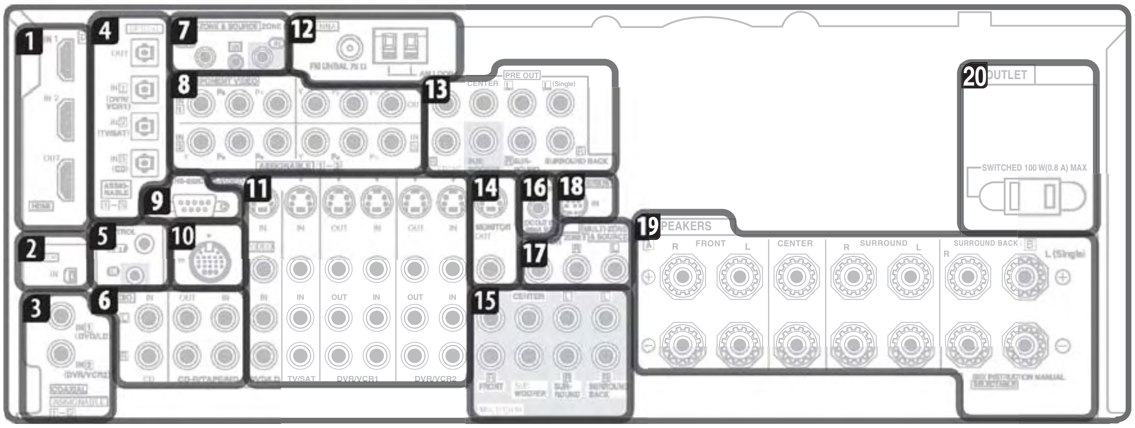
12 Multichannel analog audio inputs
7.1 channel inputs for connection to a DVD player with multichannel analog outputs.

13 Speaker terminals
Use for connection to the main front, center, surround and surround back speakers.

Note

1 If the video signal does not appear on your TV or plasma display, try adjusting the resolution settings on your component or display. Note that some components (such as video game units) have resolutions that may not be converted. In this case, use an (analog) S-video or composite connection.

● Rear Panel (VSX-91TXH/VSX-9120TXH-K)



Caution

- Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

1 HDMI connectors (x3)
Two inputs and one output for high-quality audio/video connection to compatible HDMI devices.

2 XM Radio input

3 Coaxial digital audio inputs (x2)
Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

4 Optical digital audio output/input(s) (x4)
Use the **OUT** jack for recording to a CD or MiniDisc recorder.
Use the **IN** jacks for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

5 Control input/output
Use to connect other Pioneer components so that you can control all your equipment from a single IR remote sensor.

6 Stereo analog audio source inputs/(outputs) (x3)
Use for connection to audio sources such as CD players, tape decks, turntables, etc.

7 Remote input (MULTI-ZONE and source)
Use for connection to an external remote control sensor for use in a MULTI-ZONE setup, for example.

8 Component video connections (x4)
Use the inputs to connect any video source that has component video output, such as a DVD recorder. Use the output for connection to a monitor or TV.

9 RS-232C connector
Use for connection to a PC for graphical output when using Advanced MCACC.

10 iPod input terminal
Use to connect your Apple iPod as an audio source.

11 Audio/video source inputs/(outputs) (x6)
Use for connection to audio/visual sources, such as DVD players/recorders, VCRs, etc. Each set of inputs has jacks for composite video, S-video and stereo analog audio.

12 AM and FM antenna terminals
Use to connect indoor or outdoor antennas for radio broadcasts.

13 Multichannel pre-amplifier outputs
Use to connect separate amplifiers for front, center, surround, surround back and subwoofer channels.

14 Composite and S-video monitor outputs
Use to connect monitors and TVs.

15 Multichannel analog audio inputs
7.1 channel inputs for connection to a DVD player with multichannel analog outputs.

16 12 V trigger jack (total 50 mA max.)
Use to switch components in your system on and off according to the input function of the receiver.

17 MULTI-ZONE and source outputs
Use to connect a second amplifier in a separate zone.

18 SIRIUS Radio input

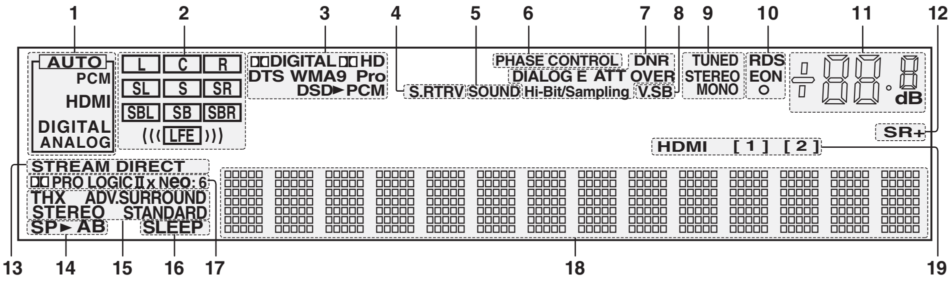
19 Speaker terminals
Use for connection to the main front, center, surround and surround back speakers.

20 Switched AC power outlet (100 W/0.8 A max.)
Use to power another component in the system. Power to the outlet switches on and off with the receiver.

Note

1 If the video signal does not appear on your TV or plasma display, try adjusting the resolution settings on your component or display. Note that some components (such as video game units) have resolutions that may not be converted. In this case, use an (analog) S-video or composite connection.

● Display (VSX-LX50)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AUTO
PCM
HDMI
DIGITAL
ANALOG
L C R
SL S SR
SBL SB SBR
(((LFE)))
DD DIGITAL DD HD
DTS WMA9 Pro
DSD►PCM
S.RTRV
SOUND
PHASE CONTROL
DIALOG E
ATT
Hi-Bit/Sampling
DNR
OVER
V.SB
TUNED
STEREO
MONO
RDS
EON
dB
SR+
HDMI [1] [2]
STREAM DIRECT
DD PRO LOGIC II x Neo:6
THX ADV.SURROUND
STEREO STANDARD
SP► AB
SLEEP
13
14
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1 SIGNAL indicators
Light to indicate the currently selected input signal. **AUTO** lights when the receiver is set to select the input signal automatically.

2 Program format indicators
These change according to which channels are active in digital sources.

L – Left front channel
C – Center channel
R – Right front channel
SL – Left surround channel
S – Surround channel (mono)
SR – Right surround channel
SBL – Left surround back channel
SB – Surround back channel (mono)
SBR – Right surround back channel
LFE – Low frequency effects channel (the **((( )))** indicators light when an LFE signal is being input)

3 Digital format indicators
Light when a signal encoded in the corresponding format is detected (**DSD►PCM** lights during the DSD (Direct Stream Digital) to PCM conversion with SACDs).

4 S.RTRV
Lights when the Sound Retriever is switched on.

5 SOUND
Lights when any of the Midnight, Loudness or tone controls feature is selected.

6 PHASE CONTROL
Lights when the Phase Control is switched on.

7 Sound processing indicators
Light according to the active AV parameter(s).

OVER lights to indicate that the level of an analog source is too high. **ATT** lights when you use the attenuator (**ANALOG ATT**) to reduce it.

8 V.SB
Lights during Virtual surround back processing.

9 TUNER indicators

TUNED – Lights when a broadcast is being received.

STEREO – Lights when a stereo FM broadcast is being received in auto stereo mode.

MONO – Lights when the mono mode is set using the **MPX** button.

10 EON / RDS indicators

EON – Lights when the EON mode is set (flashes during EON reception). The ○ indicator lights when the current station carries the EON service.

RDS – Lights when an RDS broadcast is received.

11 Master volume level

12 SR+
Lights when the SR+ mode is switched on.

13 STREAM DIRECT
Lights when Direct / Pure Direct is selected.

14 Speaker indicators
Indicate the current speaker system, **A** and/or **B**.

15 Listening mode indicators

THX – Lights when a Home THX mode is selected.

ADV. SURROUND – Lights when an Advanced Surround mode has been selected.

STEREO – Lights when the stereo mode is selected.

STANDARD – Lights when a Standard Surround mode is switched on.

16 SLEEP
Lights when the receiver is in sleep mode.

17 Matrix decoding format indicators

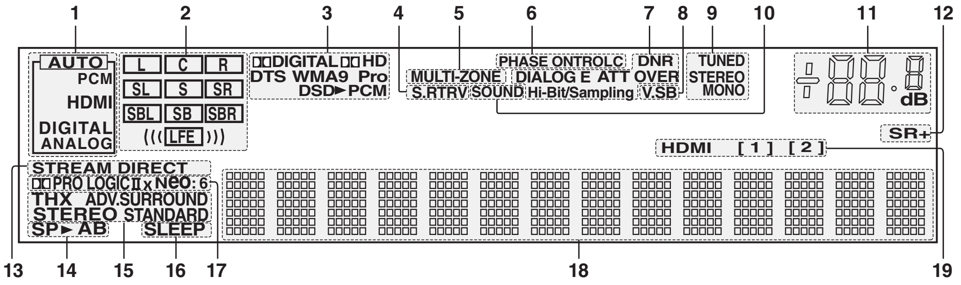
DDPRO LOGIC IIx –This lights to indicate DD Pro Logic II / DD Pro Logic IIx decoding.

Neo:6 – When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing.

18 Character display
Displays various system information.

19 HDMI connection indicators
Light to indicate the HDMI input currently selected.

● Display (VSX-91TXH/VSX-9120TXH-K)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L C R
SL S SR
SBL SB SBR
(((LFE)))
□□DIGITAL □□HD
DTS WMA9 Pro
DSD►PCM
MULTI-ZONE
S.RTRV
SOUND
PHASE CONTROL
DIALOG E
ATT
DNR
OVER
V.SB
Hi-Bit/Sampling
TUNED
STEREO
MONO
dB
SR+
HDMI [1] [2]
STREAM DIRECT
□□PRO LOGIC IIx Neo:6
THX ADV.SURROUND
STEREO STANDARD
SP► AB
SLEEP
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1 SIGNAL indicators
Light to indicate the currently selected input signal. **AUTO** lights when the receiver is set to select the input signal automatically.

2 Program format indicators
These change according to which channels are active in digital sources.

L – Left front channel
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LFE – Low frequency effects channel (the **((( )))** indicators light when an LFE signal is being input)

3 Digital format indicators
Light when a signal encoded in the corresponding format is detected (**DSD►PCM** lights during the DSD (Direct Stream Digital) to PCM conversion with SACDs).

4 S.RTRV
Lights when the Sound Retriever is switched on.

5 MULTI-ZONE
Lights when the MULTI-ZONE feature is active.

6 PHASE CONTROL
Lights when the Phase Control is switched on.

7 Sound processing indicators
Light according to the active AV parameter(s). **OVER** lights to indicate that the level of an analog source is too high. **ATT** lights when you use the attenuator (**ANALOG ATT**) to reduce it.

8 V.SB
Lights during Virtual surround back processing.

9 TUNER indicators

TUNED – Lights when a broadcast is being received.

STEREO – Lights when a stereo FM broadcast is being received in auto stereo mode.

MONO – Lights when the mono mode is set using the **MPX** button.

10 SOUND
Lights when any of the Midnight, Loudness or tone controls feature is selected.

11 Master volume level

12 SR+
Lights when the SR+ mode is switched on.

13 STREAM DIRECT
Lights when Direct / Pure Direct is selected.

14 Speaker indicators
Indicate the current speaker system, **A** and/or **B**.

15 Listening mode indicators

THX – Lights when a Home THX mode is selected.

ADV.SURROUND – Lights when an Advanced Surround mode has been selected.

STEREO – Lights when the stereo mode is selected.

STANDARD – Lights when a Standard Surround mode is switched on.

16 SLEEP
Lights when the receiver is in sleep mode.

17 Matrix decoding format indicators

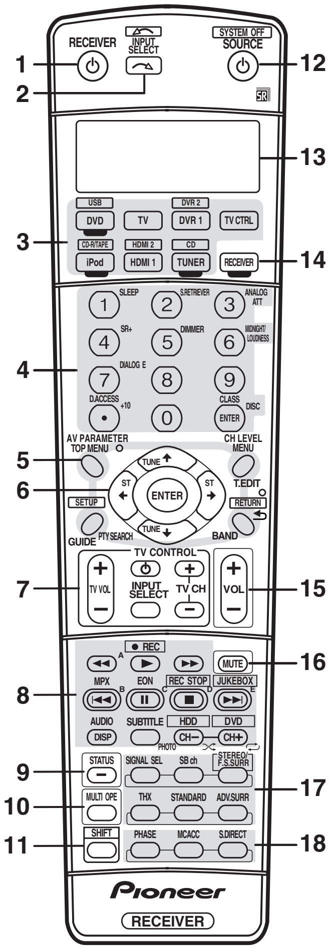
□□PRO LOGIC IIx –This lights to indicate □□ Pro Logic II / □□ Pro Logic IIx decoding.

Neo:6 – When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing.

18 Character display
Displays various system information.

19 HDMI connection indicators
Light to indicate the HDMI input currently selected.

● Remote Control (VSX-LX50)


RECEIVER
INPUT SELECT
SYSTEM OFF
SOURCE
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12
SR
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USB
DVR 2
DVD
TV
DVR 1
TV CTRL
CD-R/TAPE
HDMI 2
CD
iPod
HDMI 1
TUNER
RECEIVER
3
14
1 SLEEP
2 S.RETRIEVER
3 ANALOG ATT
4 SR+
5 DIMMER
6 MIDNIGHT/LOUDNESS
7 DIALOG E
8
9
D.ACCESS
+10
0
CLASS
ENTER
DISC
4
AV PARAMETER
TOP MENU
CH LEVEL
MENU
TUNE
ST
ENTER
ST
T.EDIT
SETUP
RETURN
GUIDE
PTY SEARCH
TUNE
BAND
5
6
TV CONTROL
TV VOL
INPUT SELECT
TV CH
VOL
7
15
● REC
A
MUTE
16
MPX
EON
REC STOP
JUKEBOX
B
C
D
E
8
AUDIO
SUBTITLE
HDD
DVD
DISP
CH–
CH+
PHOTO
STATUS
SIGNAL SEL
SB ch
STEREO/F.S.SURR
9
17
MULTI OPE
THX
STANDARD
ADV.SURR
10
SHIFT
PHASE
MCACC
S.DIRECT
11
18
Pioneer
RECEIVER

The remote has been conveniently color-coded according to component control using the following system (press the corresponding input source button to access):

- **Green** – Receiver controls (see below)
- **Red** – DVD controls
- **Blue** – Tuner controls
- **Yellow** – iPod controls
- **White** – Other controls

1 RECEIVER⏻

This switches between standby and on for this receiver.

2 INPUT SELECT

Use to select the input source (use **SHIFT** for **INPUT SELECT** ⏶).

3 Input source buttons

Press to select control of other components.

4 Number buttons and other receiver/component controls

Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.

DISC (ENTER) can be used to enter commands for TV or DTV, and also to select a disc in a multi-CD player.

Press **RECEIVER** first to access:

SLEEP – Use to put the receiver in sleep mode and select the amount of time before sleep.

S.RETRIEVER – Press to restore CD quality sound to compressed audio sources.

ANALOG ATT – Attenuates (lowers) the level of an analog input signal to prevent distortion.

SR+ – Switches the SR+ mode on/off.

DIMMER – Dims or brightens the display.

MIDNIGHT/LOUDNESS – Use Midnight when listening to movie soundtracks at low volume. Use Loudness to boost the bass and treble at low volume.

DIALOG E – Use to make dialog stand out when watching TV or a movie.

Press**TUNER** first to access:

D.ACCESS – After pressing, you can access a radio station directly using the number buttons.

CLASS – Switches between the three banks (classes) of radio station presets.

5 Tuner/component control buttons/SETUP

These button controls can be accessed after you have selected the corresponding input source button (**DVD**, **DVR1**,**TV**, etc.). The **BAND**,**T.EDIT** and **PTY SEARCH** tuner controls are explained. Press **RECEIVER** first to access the following controls:

AV PARAMETER – Use to access the AV options.

SETUP – Use to access the System Setup menu .

CH LEVEL – Press repeatedly to select a channel, then use ⬅/➡ to adjust the level.

RETURN – Press to confirm and exit the current menu screen (also use to return to the previous menu with DVDs or to select closed captioning with DTV).

6 ⬅➡⬇⬆ (TUNE/ST) /ENTER

Use the arrow buttons when setting up your surround sound system and the AV options.
Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use the **TUNE⬆/⬇** buttons to find radio frequencies and use **ST⬅/➡** to find preset stations.

7 TV CONTROL buttons

These buttons are dedicated to control the TV assigned to the **TV CTRL** button. Thus if you only have one TV to hook up to this system assign it to the **TV CTRL** input source button. If you have two TVs, assign the main TV to the **TV CTRL** button.

TV⏻ – Use to turn on/off the power of the TV.

TV VOL +/– – Use to adjust the volume on your TV.

INPUT SELECT – Use to select the TV input signal.

TV CH +/– – Use to select channels.

8 Component control buttons

The main buttons (►,■, etc.) are used to control a component after you have selected it using the input source buttons.

The controls above these buttons can be accessed after you have selected the corresponding input source button (for example **DVD**,**DVR1** or **TV**). The following controls can be accessed when listening to the built-in tuner:

MPX – Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

DISP – Switches between named station presets and radio frequencies. Also used to display RDS information.

EON – Use to search for programs that are broadcasting traffic or news information.

9 STATUS

Press to check selected receiver settings.

10 MULTI OPE

Use this button to perform multi operations.

11 SHIFT

Press to access the controls outlined in white boxes (for example, **INPUT SELECT**), or to display the currently selected input source in the remote control LCD.

12 SOURCE⏻

Press to turn on/off other components connected to the receiver.

13 Character display (LCD)

This display shows information when transmitting control signals.

The following commands are shown when you're setting the remote to control other components.

SETUP – Indicates the setup mode, from which you choose the options below.

PRESET – See Selecting preset codes directly

LEARNING – See Programming signals from other remote controls.

MULTI OP – See Multi Operation and System Off.

SYS OFF – See Multi Operation and System Off.

DIRECT F – See Direct function.

RENAME – See Renaming input source names.

ERASE – See Erasing one of the remote control button settings.

RESET – See Resetting the remote control presets.

READ ID – See Confirming preset codes.

14 RECEIVER

Switches the remote to control the receiver (used to select the green commands above the number buttons (**ANALOG ATT**, etc.)). Also use this button to set up surround sound.

15 VOL +/–

Use to set the listening volume.

16 MUTE

Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

17 Receiver controls

SIGNAL SEL – Use to select an input signal.

SB ch – Use to select the surround/virtual back channel mode.

STEREO/F.S.SURR – Switches between the stereo playback mode and the Front Stage Surround Advance mode.

THX – Press to select a Home THX listening mode.

STANDARD – Press for Standard decoding and to switch between the various □□Pro Logic IIx and Neo:6 options.

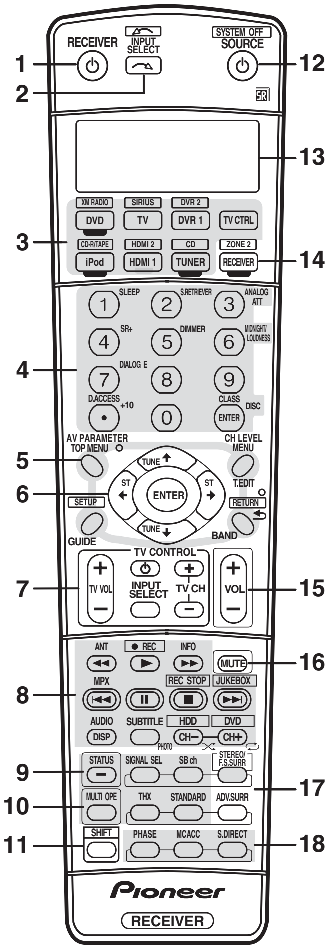
ADV.SURR – Use to switch between the various surround modes.

18 PHASE– Press to switch on/off Phase Control.

MCACC – Press to switch between MCACC presets.

S.DIRECT – Press to select the Auto Surround mode or the Stream Direct mode.
Stream Direct playback bypasses the tone controls and any other signal processing for the most accurate reproduction of a source.

● Remote Control (VSX-91TXH/VSX-9120TXH-K)


RECEIVER
INPUT SELECT
SYSTEM OFF
SOURCE
1
2
12
13
XM RADIO
SIRIUS
DVR 2
DVD
TV
DVR 1
TV CTRL
CD-R/TAPE
HDMI 2
CD
ZONE 2
iPod
HDMI 1
TUNER
RECEIVER
3
14
SLEEP
S.RETRIEVER
ANALOG ATT
SR+
DIMMER
MIDNIGHT/ LOUDNESS
DIALOG E
D.ACCESS
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CLASS
DISC
ENTER
4
AV PARAMETER
TOP MENU
CH LEVEL
MENU
TUNE
ST
T.EDIT
SETUP
RETURN
GUIDE
BAND
5
6
TV CONTROL
TV VOL
INPUT SELECT
TV CH
VOL
7
15
ANT
REC
INFO
MUTE
MPX
REC STOP
JUKEBOX
AUDIO
SUBTITLE
HDD
DVD
DISP
CH–
CH+
PHOTO
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STATUS
SIGNAL SEL
SB ch
STEREO/ F.S.SURR
MULTI OPE
THX
STANDARD
ADV.SURR
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PHASE
MCACC
S.DIRECT
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Pioneer
RECEIVER

The remote has been conveniently color-coded according to component control using the following system (press the corresponding input source button to access):

- **Green** – Receiver controls (see below)
- **Red** – DVD controls
- **Blue** – Tuner, XM and SIRIUS Radio controls
- **Yellow** – iPod controls
- **White** – Other controls

1 RECEIVER⏻
This switches between standby and on for this receiver.

2 INPUT SELECT
Use to select the input source (use **SHIFT** for **INPUT SELECT**).

3 Input source buttons
Press to select control of other components.

4 Number buttons and other receiver/component controls
Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.

DISC (ENTER) can be used to enter commands for TV or DTV, and also to select a disc in a multi-CD player.

Press **RECEIVER** first to access:

SLEEP – Use to put the receiver in sleep mode and select the amount of time before sleep.

S.RETRIEVER – Press to restore CD quality sound to compressed audio sources.

ANALOG ATT – Attenuates (lowers) the level of an analog input signal to prevent distortion.

SR+ – Switches the SR+ mode on/off.

DIMMER – Dims or brightens the display.

MIDNIGHT/LOUDNESS – Use Midnight when listening to movie soundtracks at low volume. Use Loudness to boost the bass and treble at low volume.

DIALOG E – Use to make dialog stand out when watching TV or a movie.

Press **TUNER** first to access:

D.ACCESS – After pressing, you can access a radio station directly using the number buttons.

CLASS – Switches between the three banks (classes) of radio station presets.

5 Tuner/component control buttons/SETUP
These button controls can be accessed after you have selected the corresponding input source button (**DVD**, **DVR1**,**TV**, etc.). The **BAND** and **T.EDIT** tuner controls are explained. Press **RECEIVER** first to access the following controls:

AV PARAMETER – Use to access the AV options.

SETUP – Use to access the System Setup menu.

CH LEVEL – Press repeatedly to select a channel, then use ⬅/➡ to adjust the level.

RETURN – Press to confirm and exit the current menu screen (also use to return to the previous menu with DVDs or to select closed captioning with DTV).

6 ⬅➡⬇⬆ (TUNE/ST) /ENTER
Use the arrow buttons when setting up your surround sound system and the AV options.
Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use the **TUNE⬆/⬇** buttons to find radio frequencies and use **ST⬅/➡** to find preset stations.

7 TV CONTROL buttons
These buttons are dedicated to control the TV assigned to the **TV CTRL** button. Thus if you only have one TV to hook up to this system assign it to the **TV CTRL** input source button. If you have two TVs, assign the main TV to the **TV CTRL** button.

TV⏻ – Use to turn on/off the power of the TV.

TV VOL +/– – Use to adjust the volume on your TV.

INPUT SELECT – Use to select the TV input signal.

TV CH +/– – Use to select channels.

8 Component control buttons
The main buttons (►,■, etc.) are used to control a component after you have selected it using the input source buttons.

The controls above these buttons can be accessed after you have selected the corresponding input source button (for example **DVD**,**DVR1** or **TV**). The following controls can be accessed when listening to the built-in tuner:

MPX – Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

DISP – Switches between named station presets and radio frequencies.

9 STATUS
Press to check selected receiver settings.

10 MULTI OPE
Use this button to perform multi operations.

11 SHIFT
Press to access the controls outlined in white boxes (for example, **INPUT SELECT**), or to display the currently selected input source in the remote control LCD.

12 SOURCE⏻
Press to turn on/off other components connected to the receiver.

13 Character display (LCD)
This display shows information when transmitting control signals.

The following commands are shown when you're setting the remote to control other components:

SETUP – Indicates the setup mode, from which you choose the options below.

PRESET – See Selecting preset codes directly.

LEARNING – See Programming signals from other remote controls.

MULTI OP – See Multi Operation and System Off.

SYS OFF – See Multi Operation and System Off.

DIRECT F – See Direct function.

RENAME – See Renaming input source names.

ERASE – See Erasing one of the remote control button settings.

RESET – See Resetting the remote control presets.

READ ID – See Confirming preset codes.

14 RECEIVER
Switches the remote to control the receiver (used to select the green commands above the number buttons (**ANALOG ATT**, etc.)). Also use this button to set up surround sound. With **SHIFT**, this selects the MULTI-ZONE control.

15 VOL +/–
Use to set the listening volume.

16 MUTE
Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

17 Receiver controls

SIGNAL SEL – Use to select an input signal.

SB ch – Use to select the surround/virtual back channel mode.

STEREO/F.S.SURR – Switches between the stereo playback mode and the Front Stage Surround Advance mode.

THX – Press to select a Home THX listening mode.

STANDARD – Press for Standard decoding and to switch between the various DD Pro Logic IIx and Neo:6 options.

ADV.SURR – Use to switch between the various surround modes.

18 PHASE– Press to switch on/off Phase Control.

MCACC – Press to switch between MCACC presets.

S.DIRECT – Press to select the Auto Surround mode or the Stream Direct mode.
Stream Direct playback bypasses the tone controls and any other signal processing for the most accurate reproduction of a source.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

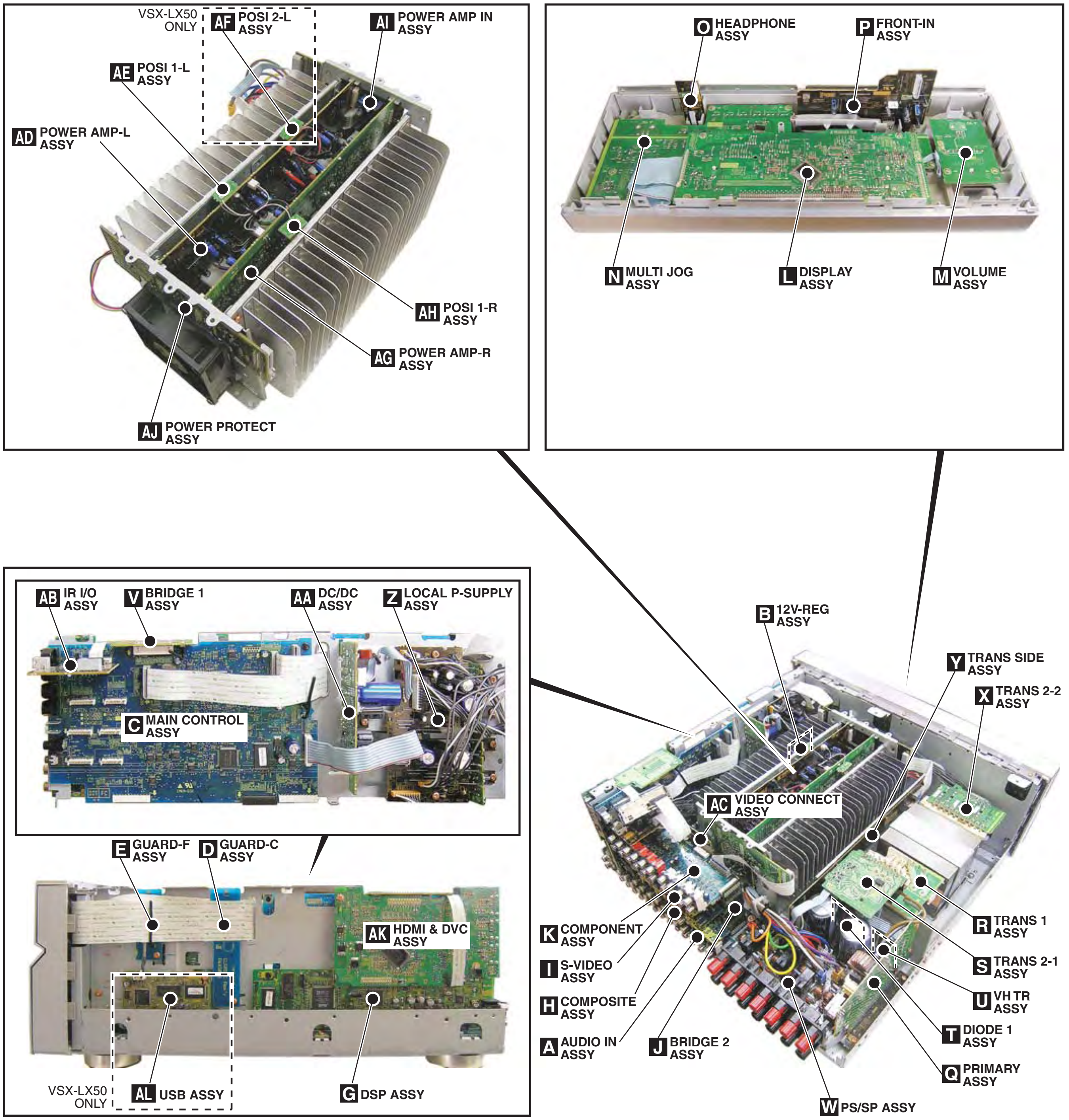
To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedure	Check points
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the particular source, such as Dolby Digital, DTS, AAC, DVD-A and HDMI, input it for the operation check.	The customer complain must not be reappeared. Video, Audio and operations must be normal.
2	Check the analog audio playback. (Make the analog connections with a DVD player.)	Each channel audio and operations must be normal.
3	Check the digital audio playback. (Make the digital connections with a DVD player.)	Each channel audio and operations must be normal.
4	Check surround playback. (Select Surround mode and check the multichannel operations via the DSP circuit.)	Each channel audio and operations must be normal.
5	Check the video outputs. (Connect with a DVD player.)	Video and operations must be normal.
6	Check the sound from headphone output.	Sound must be normal, without noise.
7	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding video and audio:

Items to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

3.2 PCB LOCATIONS


VSX-LX50 ONLY
AF POSI 2-L ASSY
AI POWER AMP IN ASSY
AE POSI 1-L ASSY
AD POWER AMP-L ASSY
AH POSI 1-R ASSY
AG POWER AMP-R ASSY
AJ POWER PROTECT ASSY
O HEADPHONE ASSY
P FRONT-IN ASSY
N MULTI JOG ASSY
L DISPLAY ASSY
M VOLUME ASSY
AB IR I/O ASSY
V BRIDGE 1 ASSY
AA DC/DC ASSY
Z LOCAL P-SUPPLY ASSY
C MAIN CONTROL ASSY
E GUARD-F ASSY
D GUARD-C ASSY
AK HDMI & DVC ASSY
VSX-LX50 ONLY
AL USB ASSY
G DSP ASSY
B 12V-REG ASSY
Y TRANS SIDE ASSY
X TRANS 2-2 ASSY
AC VIDEO CONNECT ASSY
K COMPONENT ASSY
I S-VIDEO ASSY
H COMPOSITE ASSY
A AUDIO IN ASSY
J BRIDGE 2 ASSY
R TRANS 1 ASSY
S TRANS 2-1 ASSY
U VH TR ASSY
T DIODE 1 ASSY
Q PRIMARY ASSY
W PS/SP ASSY

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

◆ LIST OF ASSEMBLIES

Mark	Symbol and Description	VSX-LX50 /HYXJ5	VSX-91TXH /KUXJ/CA	VSX-9120TXH-K /KUXJ
NSP	1..MAIN ASSY	AWK7975	AWK7974	AWK7974
	2..MAIN CONTROL ASSY	AWX8817	AWX8816	AWX8816
	2..AUDIO IN ASSY	AWX8821	AWX8820	AWX8820
	2..12V-REG ASSY	AWX8824	AWX8824	AWX8824
	2..GUARD-C ASSY	AWX8826	AWX8826	AWX8826
	2..GUARD-F ASSY	AWX8825	AWX8825	AWX8825
	1..DSP ASSY	AWX8814	AWX8813	AWX8813
NSP	1..VIDEO ASSY	AWK7984	AWK7983	AWK7983
	2..COMPOSITE ASSY	AWX8842	AWX8841	AWX8841
	2..S-VIDEO ASSY	AWX8845	AWX8844	AWX8844
	2..COMPONENT ASSY	AWX8848	AWX8847	AWX8847
	2..BRIDGE 2 ASSY	AWX8850	AWX8850	AWX8850
NSP	1..COMPLEX ASSY	AWK8015	AWK8014	AWK8014
	2..PRIMARY ASSY	AWX9035	AWX9034	AWX9034
	2..TRANS 1 ASSY	AWX9038	AWX9038	AWX9038
	2..DISPLAY ASSY	AWX8874	AWX8873	AWX8873
	2..VOLUME ASSY	AWX9111	AWX9044	AWX9044
	2..MULTI JOG ASSY	AWX8880	AWX8879	AWX8879
	2..FRONT-IN ASSY	AWX8955	AWX8954	AWX8954
	2..HEADPHONE ASSY	AWX9049	AWX9049	AWX9049
NSP	1..SECONDARY ASSY	AWK7911	AWK7910	AWK7910
	2..PS/SP ASSY	AWX9107	AWX9052	AWX9052
	2..TRANS SIDE ASSY	AWX9056	AWX9056	AWX9056
	2..TRANS 2-1 ASSY	AWX9059	AWX9058	AWX9058
	2..DIODE 1 ASSY	AWX9060	AWX9060	AWX9060
	2..VH TR ASSY	AWX9061	AWX9061	AWX9061
	2..TRANS 2-2 ASSY	AWX9062	AWX9062	AWX9062
	2..LOCAL P-SUPPLY ASSY	AWX9064	AWX9063	AWX9063
	2..IR I/O ASSY	AWX9067	AWX9066	AWX9066
	2..VIDEO CONNECT ASSY	AWX9069	AWX9069	AWX9069
	2..DC/DC ASSY	AWX9015	AWX9015	AWX9015
	2..BRIDGE 1 ASSY	AWX9078	AWX9078	AWX9078
NSP	1..POWER AMP ASSY	AWK7920	AWK7919	AWK7919
	2..POWER AMP-L ASSY	AWX9072	AWX9071	AWX9071
	2..POWER AMP-R ASSY	AWX9073	AWX9106	AWX9106
	2..POWER AMP IN ASSY	AWX9075	AWX9075	AWX9075
	2..POWER PROTECT ASSY	AWX9077	AWX9076	AWX9076
	2..POSI 1-L ASSY	AWX9081	AWX9080	AWX9080
	2..POSI 2-L ASSY	AWX9082	Not used	Not used
	2..POSI 1-R ASSY	AWX9084	AWX9083	AWX9083
	1..HDMI & DVC ASSY	AWQ7040	AWQ7040	AWQ7040
	1..USB ASSY	AWX8866	Not used	Not used
	1..FM/AM TUNER UNIT	AXX7248	AXX7250	AXX7250

3.3 JIGS LIST

■ Jigs list

Name	Jig No.	Remarks
11P board to board extension jig cable	GGD1482	Diagonosis
13P board to board extension jig cable	GGD1483	Diagonosis
15P board to board extension jig cable	GGD1484	Diagonosis
21P board to board extension jig cable	GGD1485	Diagonosis
RS-232C I/F jig	GGF1348	Update the Flash ROMS
7-pin FFC	VDA1681	Update the Flash ROMS

■ CLEANING

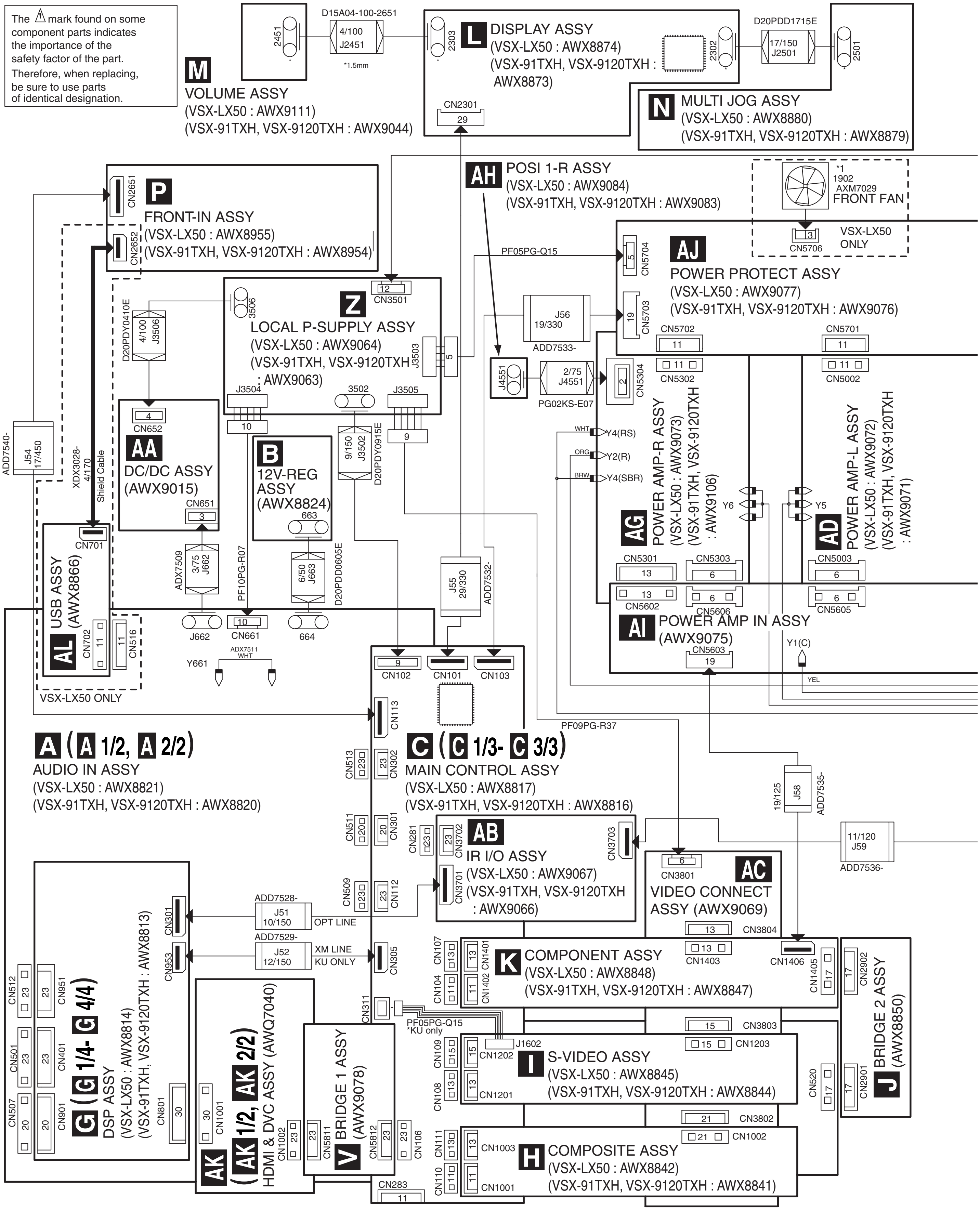
Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

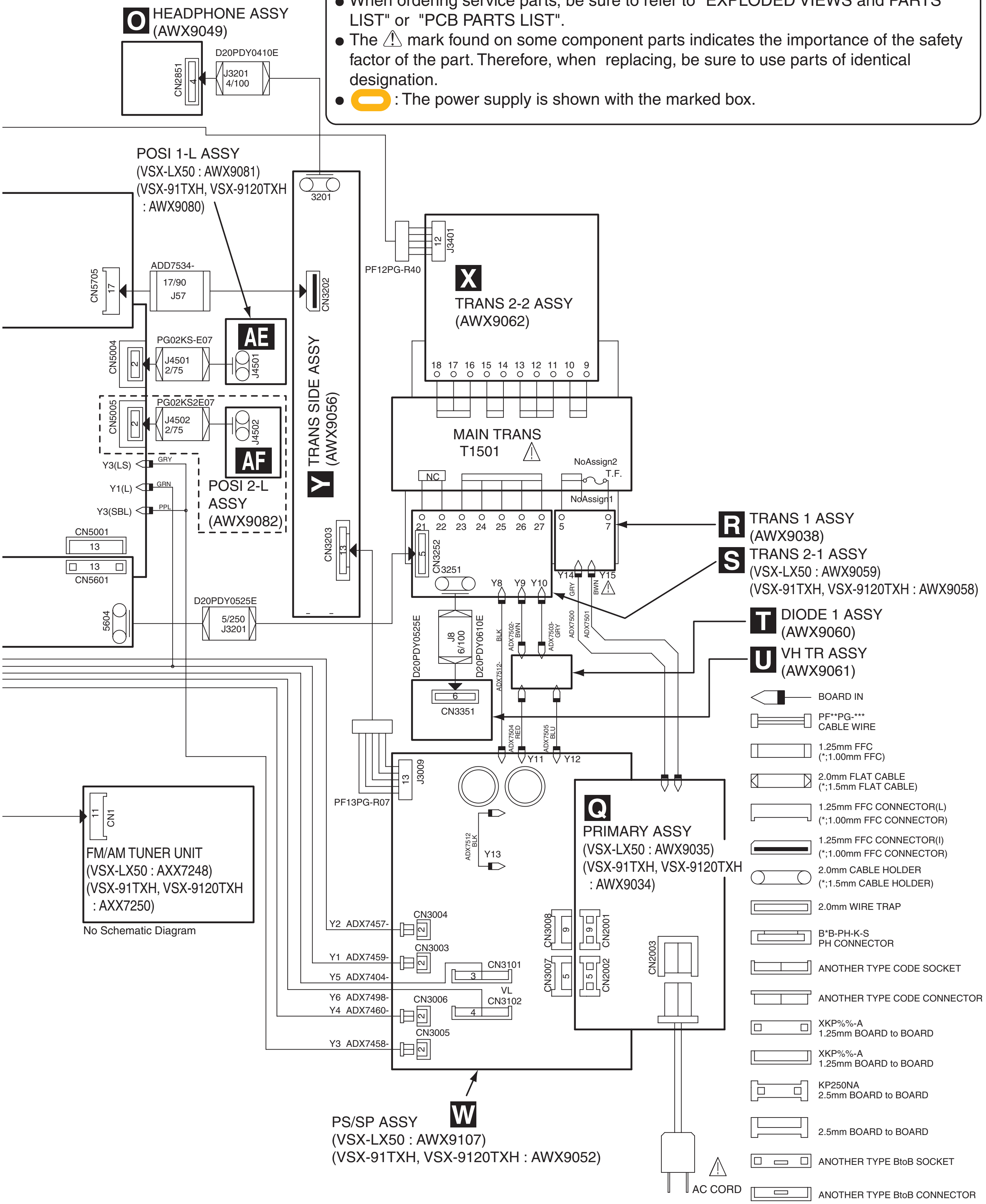
4. BLOCK DIAGRAM

4.1 OVERALL WIRING DIAGRAM

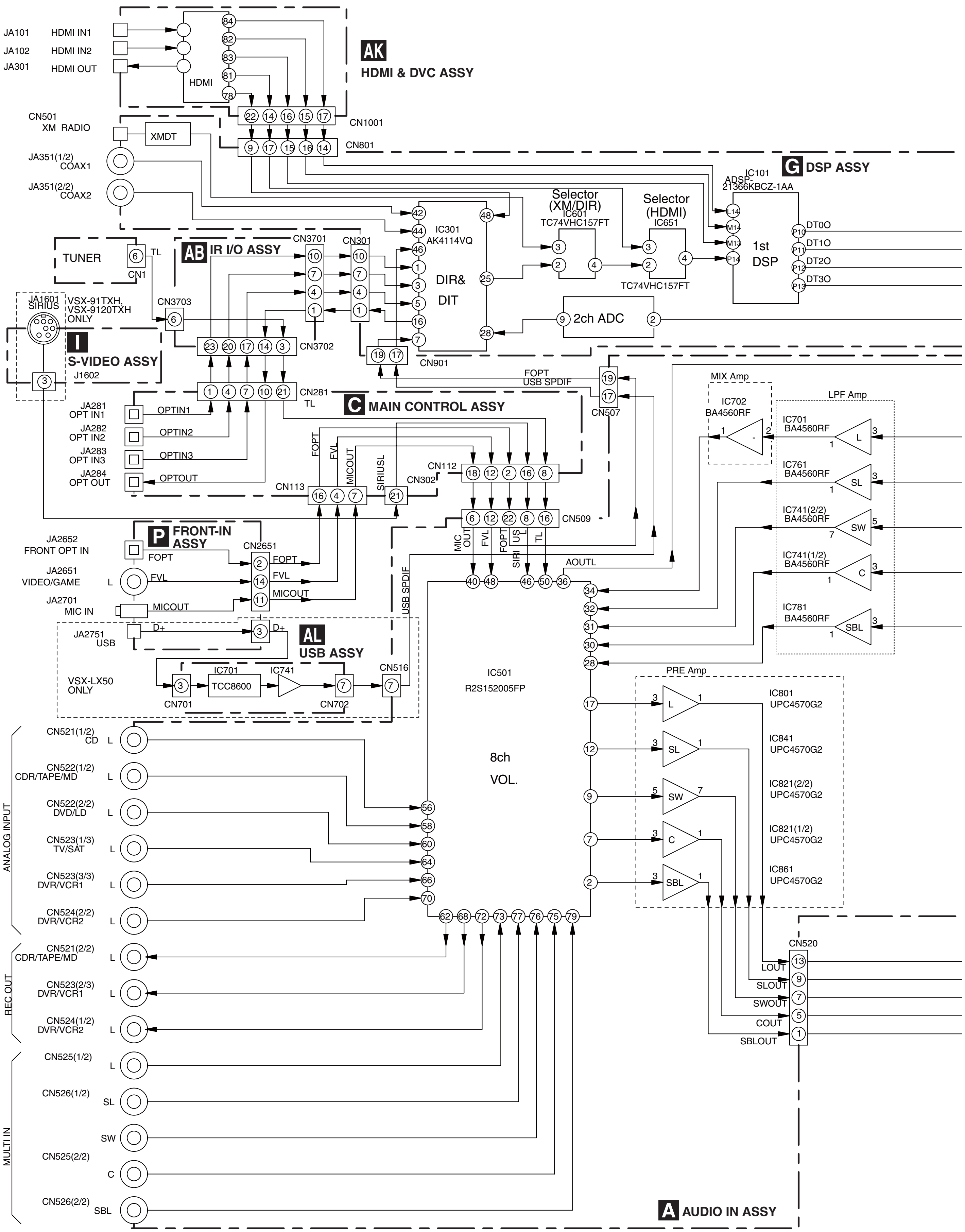
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

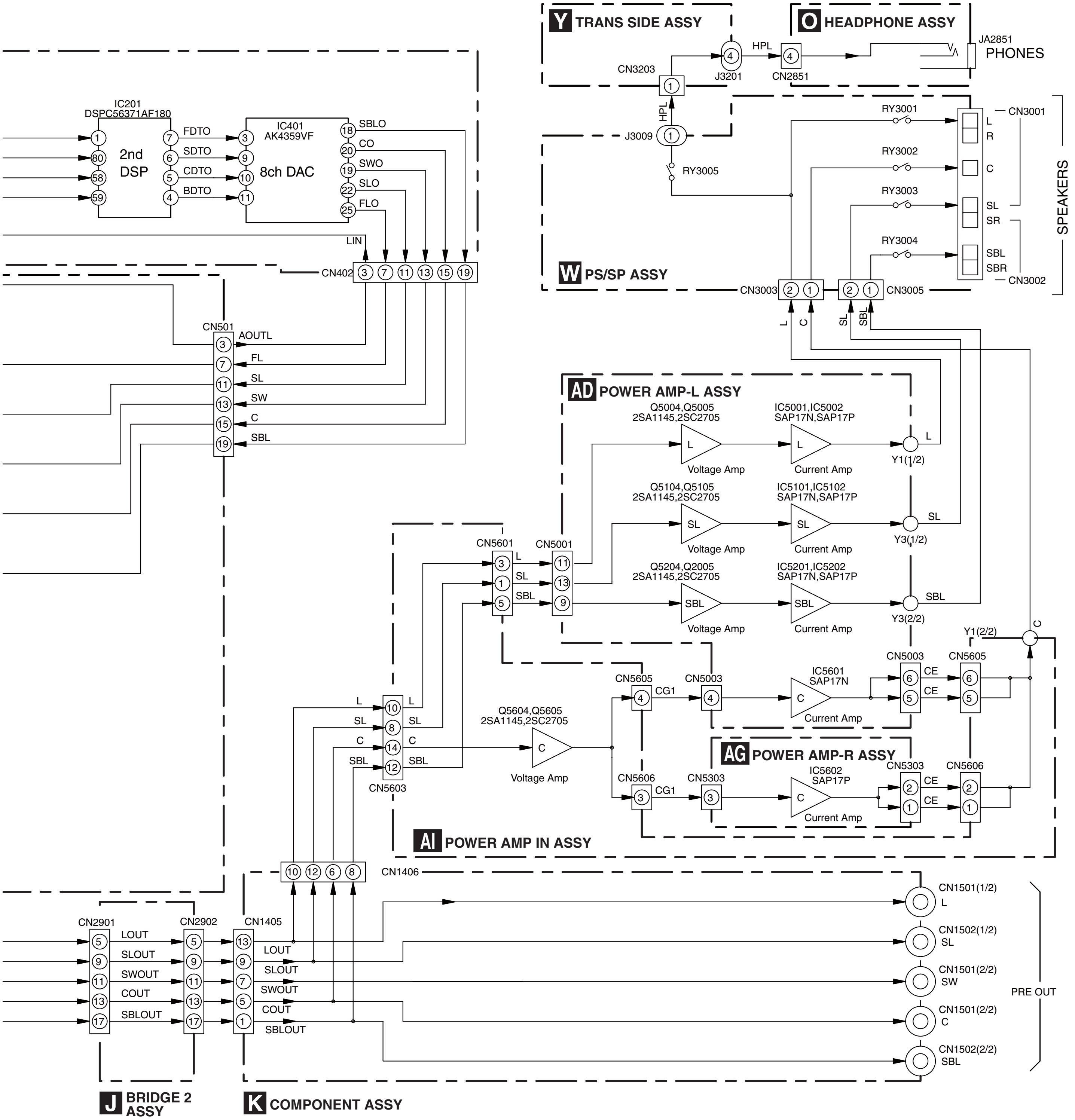

M
VOLUME ASSY
(VSX-LX50 : AWX9111)
(VSX-91TXH, VSX-9120TXH : AWX9044)
2451
D15A04-100-2651
4/100
J2451
*1.5mm
L
DISPLAY ASSY
(VSX-LX50 : AWX8874)
(VSX-91TXH, VSX-9120TXH : AWX8873)
2303
2302
CN2301
29
D20PDD1715E
17/150
J2501
2501
N
MULTI JOG ASSY
(VSX-LX50 : AWX8880)
(VSX-91TXH, VSX-9120TXH : AWX8879)
AH
POSI 1-R ASSY
(VSX-LX50 : AWX9084)
(VSX-91TXH, VSX-9120TXH : AWX9083)
*1
1902
AXM7029
FRONT FAN
3
CN5706
VSX-LX50 ONLY
P
FRONT-IN ASSY
(VSX-LX50 : AWX8955)
(VSX-91TXH, VSX-9120TXH : AWX8954)
CN2651
CN2652
AJ
POWER PROTECT ASSY
(VSX-LX50 : AWX9077)
(VSX-91TXH, VSX-9120TXH : AWX9076)
PF05PG-Q15
CN5704
5
CN5703
19
J56
19/330
ADD7533-
CN5702
11
CN5701
11
Z
LOCAL P-SUPPLY ASSY
(VSX-LX50 : AWX9064)
(VSX-91TXH, VSX-9120TXH : AWX9063)
12
CN3501
3506
J3506
4/100
D20PDY0410E
J3503
5
J3504
3502
J3505
10
9
J4551
2/75
J4551
PG02KS-E07
2
CN5304
11
CN5302
11
CN5002
AA
DC/DC ASSY
(AWX9015)
4
CN652
CN651
3
B
12V-REG ASSY
(AWX8824)
663
9/150
J3502
D20PDY0915E
WHT
Y4(RS)
ORG
Y2(R)
BRW
Y4(SBR)
AG
POWER AMP-R ASSY
(VSX-LX50 : AWX9073)
(VSX-91TXH, VSX-9120TXH : AWX9106)
Y6
Y5
AD
POWER AMP-L ASSY
(VSX-LX50 : AWX9072)
(VSX-91TXH, VSX-9120TXH : AWX9071)
ADD7540-
J54
17/450
XDX3028-
4/170
Shield Cable
ADX7509
3/75
J662
PF10PG-R07
6/50
J663
D20PDD0605E
J55
29/330
ADD7532-
CN5301
13
CN5303
6
CN5003
6
13
CN5602
6
CN5606
6
CN5605
AI
POWER AMP IN ASSY
(AWX9075)
CN5603
19
Y1(C)
YEL
AL
USB ASSY
(AWX8866)
CN701
CN702
11
11
CN516
J662
10
CN661
664
ADX7511
WHT
Y661
VSX-LX50 ONLY
9
CN102
CN101
CN103
CN113
PF09PG-R37
A (A 1/2, A 2/2)
AUDIO IN ASSY
(VSX-LX50 : AWX8821)
(VSX-91TXH, VSX-9120TXH : AWX8820)
C (C 1/3- C 3/3)
MAIN CONTROL ASSY
(VSX-LX50 : AWX8817)
(VSX-91TXH, VSX-9120TXH : AWX8816)
CN513
23
23
CN302
CN511
20
20
CN301
CN281
23
23
CN3702
AB
IR I/O ASSY
(VSX-LX50 : AWX9067)
(VSX-91TXH, VSX-9120TXH : AWX9066)
CN3701
CN3703
19/125
J58
ADD7535-
11/120
J59
ADD7536-
6
CN3801
AC
VIDEO CONNECT ASSY (AWX9069)
CN509
23
23
CN112
ADD7528-
J51
10/150
OPT LINE
ADD7529-
J52
12/150
XM LINE
KU ONLY
CN305
CN301
CN953
13
CN3804
CN107
13
13
CN1401
CN104
11
11
CN1402
K
COMPONENT ASSY
(VSX-LX50 : AWX8848)
(VSX-91TXH, VSX-9120TXH : AWX8847)
13
CN1403
CN1406
CN1405
17
17
CN2902
J
BRIDGE 2 ASSY
(AWX8850)
CN512
23
23
CN951
CN501
23
23
CN401
CN507
20
20
CN901
CN801
30
G (G 1/4- G 4/4)
DSP ASSY
(VSX-LX50 : AWX8814)
(VSX-91TXH, VSX-9120TXH : AWX8813)
30
CN1001
CN1002
23
AK (AK 1/2, AK 2/2)
HDMI & DVC ASSY (AWQ7040)
23
CN5811
V
BRIDGE 1 ASSY
(AWX9078)
CN5812
23
23
CN106
CN311
PF05PG-Q15
*KU only
J1602
15
CN3803
15
CN1203
CN109
15
15
CN1202
CN108
13
13
CN1201
I
S-VIDEO ASSY
(VSX-LX50 : AWX8845)
(VSX-91TXH, VSX-9120TXH : AWX8844)
CN520
17
17
CN2901
21
CN3802
21
CN1002
CN111
13
13
CN1003
CN110
11
11
CN1001
H
COMPOSITE ASSY
(VSX-LX50 : AWX8842)
(VSX-91TXH, VSX-9120TXH : AWX8841)
CN283
11

- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ⬭ : The power supply is shown with the marked box.


O HEADPHONE ASSY (AWX9049)
CN2851
4
D20PDY0410E
J3201 4/100
POSI 1-L ASSY (VSX-LX50 : AWX9081) (VSX-91TXH, VSX-9120TXH : AWX9080)
3201
CN5705
17
ADD7534-
17/90
J57
CN3202
PF12PG-R40
12
J3401
X TRANS 2-2 ASSY (AWX9062)
AE
J4501
CN5004
2
PG02KS-E07
J4501 2/75
Y TRANS SIDE ASSY (AWX9056)
18 17 16 15 14 13 12 11 10 9
CN5005
PG02KS2E07
J4502 2/75
J4502
AF
MAIN TRANS T1501 ⚠
NoAssign2
T.F.
NC
NoAssign1
Y3(LS)
GRY
Y1(L)
GRN
Y3(SBL)
PPL
POSI 2-L ASSY (AWX9082)
CN5001
13
13
CN5601
CN3203
13
21 22 23 24 25 26 27
5 7
5
CN3252
3251
Y8 Y9 Y10
Y14 Y15
GRY
BWN ⚠
R TRANS 1 ASSY (AWX9038)
S TRANS 2-1 ASSY (VSX-LX50 : AWX9059) (VSX-91TXH, VSX-9120TXH : AWX9058)
5604
D20PDY0525E
5/250
J3201
D20PDY0525E
J8 6/100
D20PDY0610E
BLK
ADX7502-BWN
ADX7503-GRY
ADX7500
ADX7501
T DIODE 1 ASSY (AWX9060)
U VH TR ASSY (AWX9061)
ADX7512-
6
CN3351
ADX7504 RED
ADX7505 BLU
Y11 Y12
13
J3009
PF13PG-R07
11
CN1
FM/AM TUNER UNIT (VSX-LX50 : AXX7248) (VSX-91TXH, VSX-9120TXH : AXX7250)
No Schematic Diagram
ADX7512 BLK
Y13
Q PRIMARY ASSY (VSX-LX50 : AWX9035) (VSX-91TXH, VSX-9120TXH : AWX9034)
Y2 ADX7457-
CN3004
2
CN3008
9
9
CN2001
Y1 ADX7459-
CN3003
2
CN3101
3
Y5 ADX7404-
CN3007
5
5
CN2002
CN2003
VL
CN3102
Y6 ADX7498-
Y4 ADX7460-
CN3006
2
4
CN3005
Y3 ADX7458-
2
W PS/SP ASSY (VSX-LX50 : AWX9107) (VSX-91TXH, VSX-9120TXH : AWX9052)
⚠
AC CORD
BOARD IN
PF**PG-*** CABLE WIRE
1.25mm FFC (*;1.00mm FFC)
2.0mm FLAT CABLE (*;1.5mm FLAT CABLE)
1.25mm FFC CONNECTOR(L) (*;1.00mm FFC CONNECTOR)
1.25mm FFC CONNECTOR(I) (*;1.00mm FFC CONNECTOR)
2.0mm CABLE HOLDER (*;1.5mm CABLE HOLDER)
2.0mm WIRE TRAP
B*B-PH-K-S PH CONNECTOR
ANOTHER TYPE CODE SOCKET
ANOTHER TYPE CODE CONNECTOR
XKP%%-A 1.25mm BOARD to BOARD
XKP%%-A 1.25mm BOARD to BOARD
KP250NA 2.5mm BOARD to BOARD
2.5mm BOARD to BOARD
ANOTHER TYPE BtoB SOCKET
ANOTHER TYPE BtoB CONNECTOR

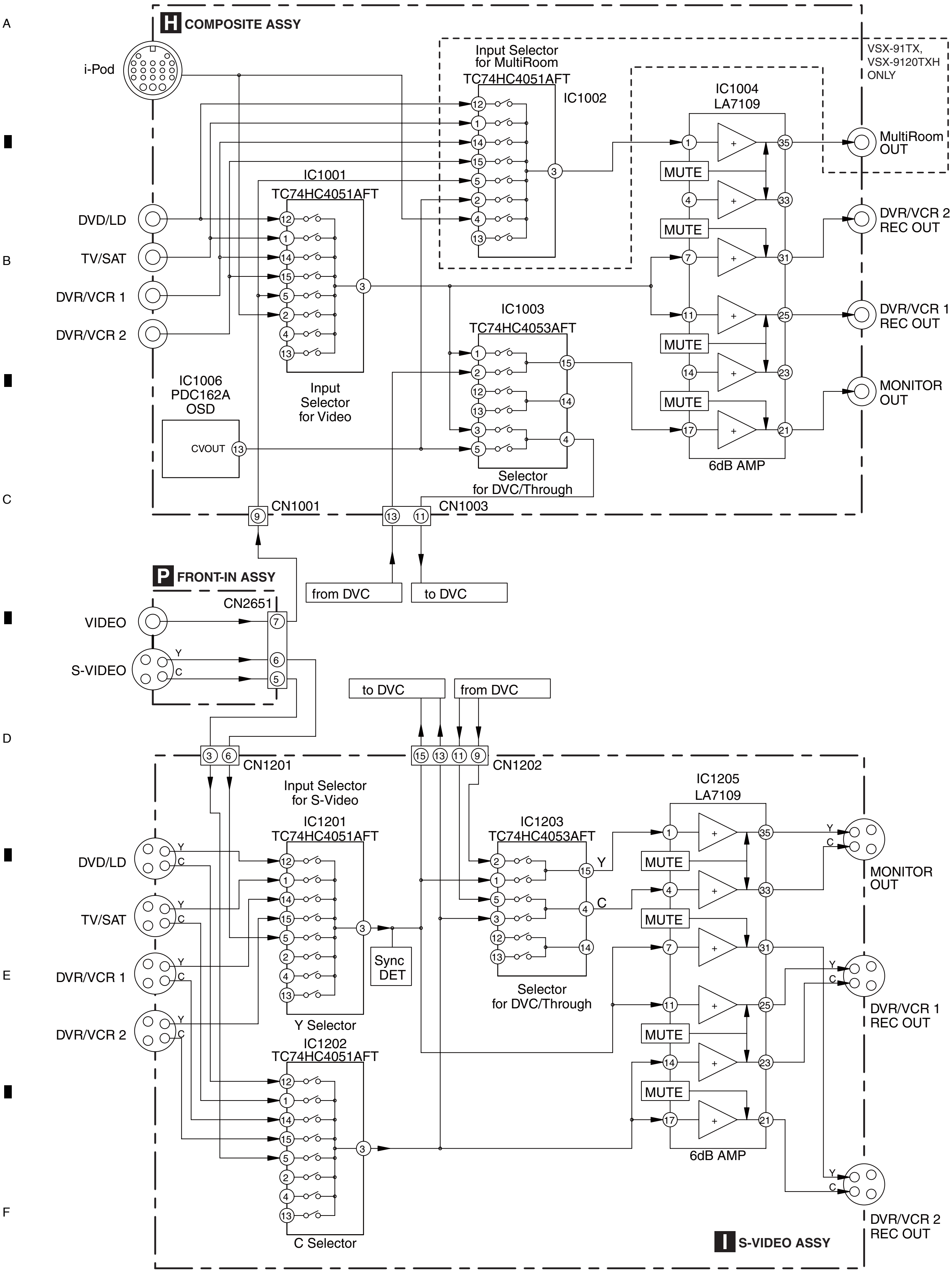
4.2 BLOCK DIAGRAM for AUDIO BLOCK

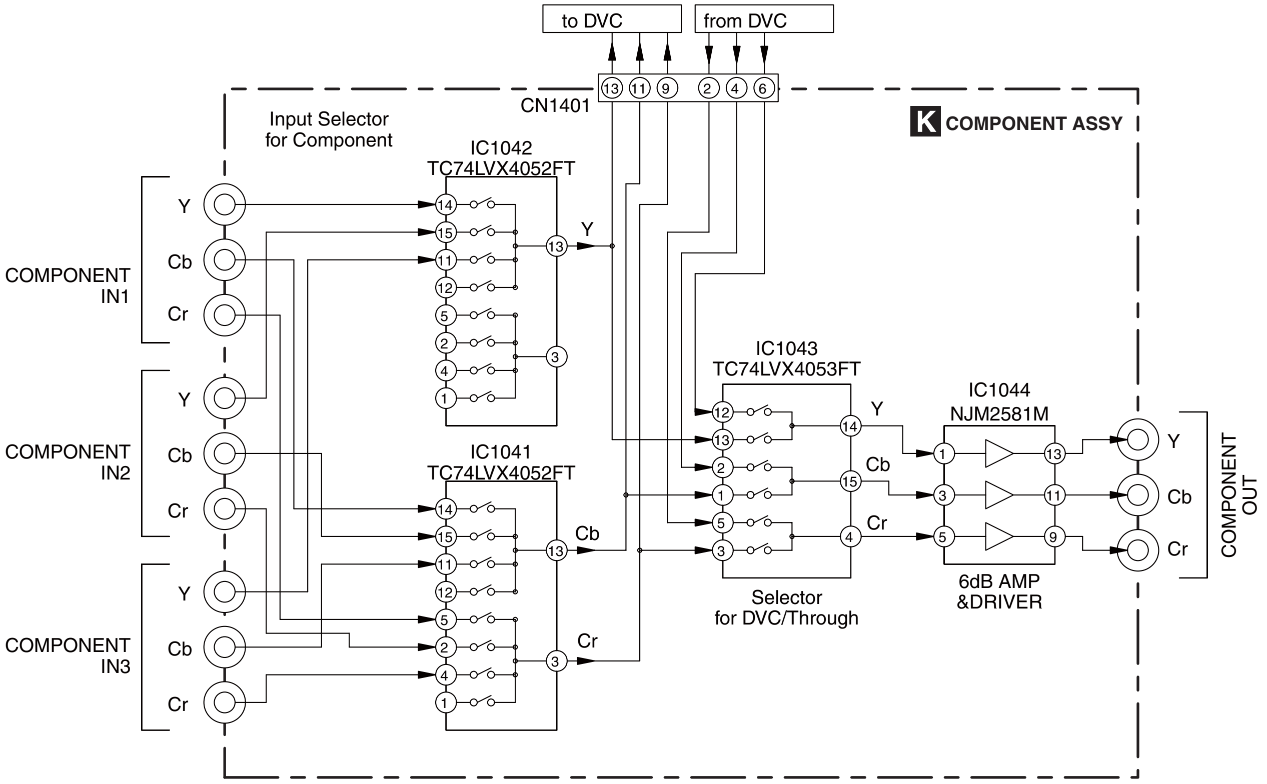

A
B
C
D
E
F
AK
HDMI & DVC ASSY
JA101 HDMI IN1
JA102 HDMI IN2
JA301 HDMI OUT
HDMI
84
82
83
81
78
CN1001
22 14 16 15 17
CN801
9 17 15 16 14
CN501 XM RADIO
XMDT
JA351(1/2) COAX1
JA351(2/2) COAX2
G DSP ASSY
IC101 ADSP-21366KBCZ-1AA
L14
M14
M13
P14
1st DSP
P10 DT0O
P11 DT1O
P12 DT2O
P13 DT3O
Selector (XM/DIR)
IC601 TC74VHC157FT
Selector (HDMI)
IC651
TC74VHC157FT
IC301 AK4114VQ
DIR& DIT
42
44
46
48
25
28
2ch ADC
TUNER
TL
CN1
AB IR I/O ASSY
CN3701
CN301
10
7
4
1
16
JA1601 SIRIUS
VSX-91TXH, VSX-9120TXH ONLY
CN3703
I S-VIDEO ASSY
J1602
CN3702
23 20 17 14 3
CN901
19 17
FOPT
USB SPDIF
CN507
MIX Amp
IC702 BA4560RF
LPF Amp
IC701 BA4560RF
L
IC761 BA4560RF
SL
IC741(2/2) BA4560RF
SW
IC741(1/2) BA4560RF
C
IC781 BA4560RF
SBL
CN281
1 4 7 10 21
TL
C MAIN CONTROL ASSY
JA281 OPT IN1
OPTIN1
JA282 OPT IN2
OPTIN2
JA283 OPT IN3
OPTIN3
JA284 OPT OUT
OPTOUT
FOPT
FVL
MICOUT
SIRIUSL
CN112
18 12 2 16 8
CN113
16 4 7
CN302
21
CN509
6 12 22 8 16
MIC OUT
FVL
FOPT
SIRI
US L
TL
AOUTL
P FRONT-IN ASSY
JA2652 FRONT OPT IN
FOPT
CN2651
JA2651 VIDEO/GAME
FVL
JA2701 MIC IN
MICOUT
JA2751 USB
D+
AL USB ASSY
VSX-LX50 ONLY
IC701 TCC8600
IC741
CN701
CN702
CN516
USB SPDIF
IC501 R2S152005FP
8ch VOL.
40 48 46 50 36
34 32 31 30 28
17 12 9 7 2
56 58 60 64 66 70
62 68 72 73 77 76 75 79
PRE Amp
IC801 UPC4570G2
IC841 UPC4570G2
IC821(2/2) UPC4570G2
IC821(1/2) UPC4570G2
IC861 UPC4570G2
CN520
LOUT
SLOUT
SWOUT
COUT
SBLOUT
13 9 7 5 1
ANALOG INPUT
CN521(1/2) CD L
CN522(1/2) CDR/TAPE/MD L
CN522(2/2) DVD/LD L
CN523(1/3) TV/SAT L
CN523(3/3) DVR/VCR1 L
CN524(2/2) DVR/VCR2 L
REC OUT
CN521(2/2) CDR/TAPE/MD L
CN523(2/3) DVR/VCR1 L
CN524(1/2) DVR/VCR2 L
MULTI IN
CN525(1/2) L
CN526(1/2) SL
SW
CN525(2/2) C
CN526(2/2) SBL
A AUDIO IN ASSY



Y TRANS SIDE ASSY
O HEADPHONE ASSY
HPL
JA2851
PHONES
CN3203
J3201
CN2851
HPL
J3009
RY3005
RY3001
RY3002
RY3003
RY3004
CN3001
CN3002
L
R
C
SL
SR
SBL
SBR
SPEAKERS
W PS/SP ASSY
CN3003
CN3005
L
C
SL
SBL
IC201
DSPC56371AF180
2nd DSP
FDTO
SDTO
CDTO
BDTO
IC401
AK4359VF
8ch DAC
SBLO
CO
SWO
SLO
FLO
LIN
CN402
CN501
AOUTL
FL
SL
SW
C
SBL
AD POWER AMP-L ASSY
Q5004,Q5005
2SA1145,2SC2705
IC5001,IC5002
SAP17N,SAP17P
Voltage Amp
Current Amp
Y1(1/2)
Q5104,Q5105
2SA1145,2SC2705
IC5101,IC5102
SAP17N,SAP17P
Y3(1/2)
Q5204,Q2005
2SA1145,2SC2705
IC5201,IC5202
SAP17N,SAP17P
Y3(2/2)
Y1(2/2)
CN5601
CN5001
CN5603
Q5604,Q5605
2SA1145,2SC2705
Voltage Amp
CN5605
CN5003
CG1
IC5601
SAP17N
CE
Current Amp
AG POWER AMP-R ASSY
CN5606
CN5303
IC5602
SAP17P
AI POWER AMP IN ASSY
CN1406
CN1405
CN2901
CN2902
LOUT
SLOUT
SWOUT
COUT
SBLOUT
CN1501(1/2)
CN1502(1/2)
CN1501(2/2)
CN1501(2/2)
CN1502(2/2)
PRE OUT
J BRIDGE 2 ASSY
K COMPONENT ASSY

4.3 BLOCK DIAGRAM for VIDEO BLOCK


H COMPOSITE ASSY
i-Pod
Input Selector for MultiRoom
TC74HC4051AFT
IC1002
VSX-91TX, VSX-9120TXH ONLY
IC1004 LA7109
MultiRoom OUT
MUTE
IC1001 TC74HC4051AFT
DVD/LD
TV/SAT
DVR/VCR 1
DVR/VCR 2
DVR/VCR 2 REC OUT
DVR/VCR 1 REC OUT
IC1003 TC74HC4053AFT
MONITOR OUT
IC1006 PDC162A OSD
CVOUT
Input Selector for Video
Selector for DVC/Through
6dB AMP
CN1001
CN1003
P FRONT-IN ASSY
CN2651
from DVC
to DVC
VIDEO
S-VIDEO
Y
C
CN1201
CN1202
Input Selector for S-Video
IC1201 TC74HC4051AFT
IC1203 TC74HC4053AFT
IC1205 LA7109
Sync DET
Y Selector
IC1202 TC74HC4051AFT
C Selector
I S-VIDEO ASSY


to DVC
from DVC
13 11 9 2 4 6
CN1401
K COMPONENT ASSY
Input Selector
for Component
IC1042
TC74LVX4052FT
IC1041
TC74LVX4052FT
COMPONENT
IN1
COMPONENT
IN2
COMPONENT
IN3
Y
Cb
Cr
IC1043
TC74LVX4053FT
Selector
for DVC/Through
IC1044
NJM2581M
6dB AMP
&DRIVER
COMPONENT
OUT

5. DIAGNOSIS

5.1 DIAGNOSIS FLOWCHART

5.1.1 DSP TROUBLESHOOTING

■ Simplified diagnosis

Herein is described how to easily diagnose a defective part in the DSP Assy, only with operations of the main unit.

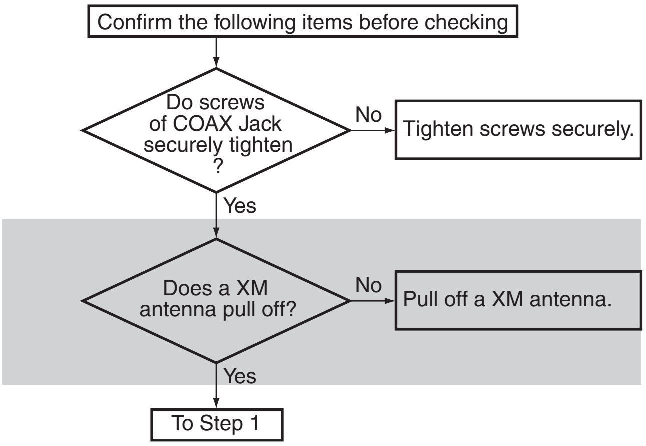
Errors in DSP Assembly (Areas simply and roughly predictable by machine operation only)

- Sound abnormality in phase control
  If sound abnormality does not occur in the phase-control OFF state but occurs in the phase-control ON state, it is most likely that a failure has occurred in SPAM (IC107), LATCH (IC103) or DECODER IC (IC105) in the 1st DSP Block.
- No sound at analog signal input
  If sound abnormality does not occur with a digital signal input (COAX, OPT) but occurs only with an analog signal input, it is most likely that a failure has occurred in the AD converter (IC481).

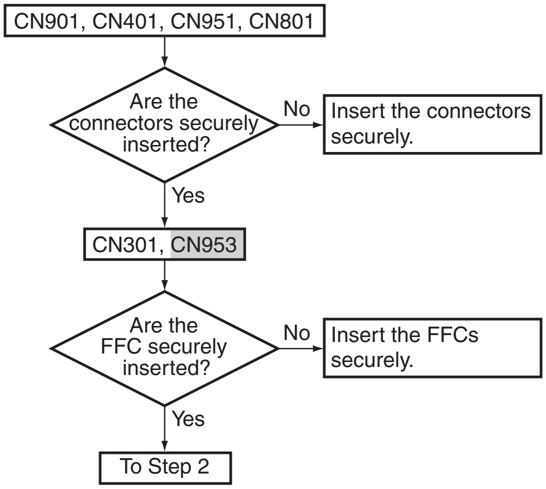
■ Troubleshooting

- It is assumed that there is no loose connection or damage in the LCRs.
- ▨ : KUXJ and KUXJ/CA types only

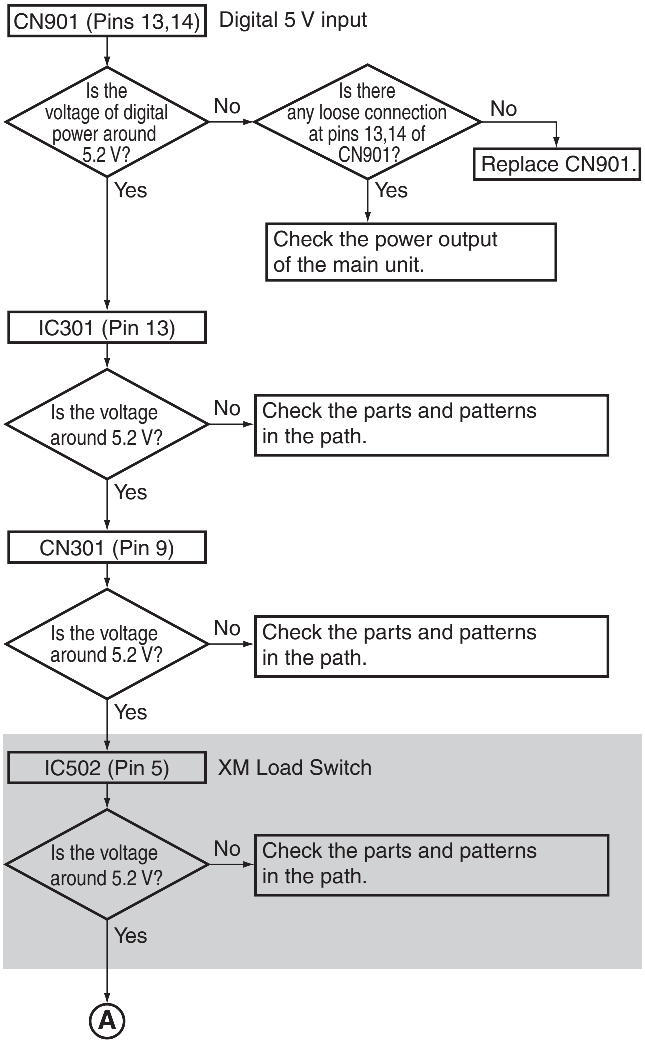
Step 0: Preliminary confirmation

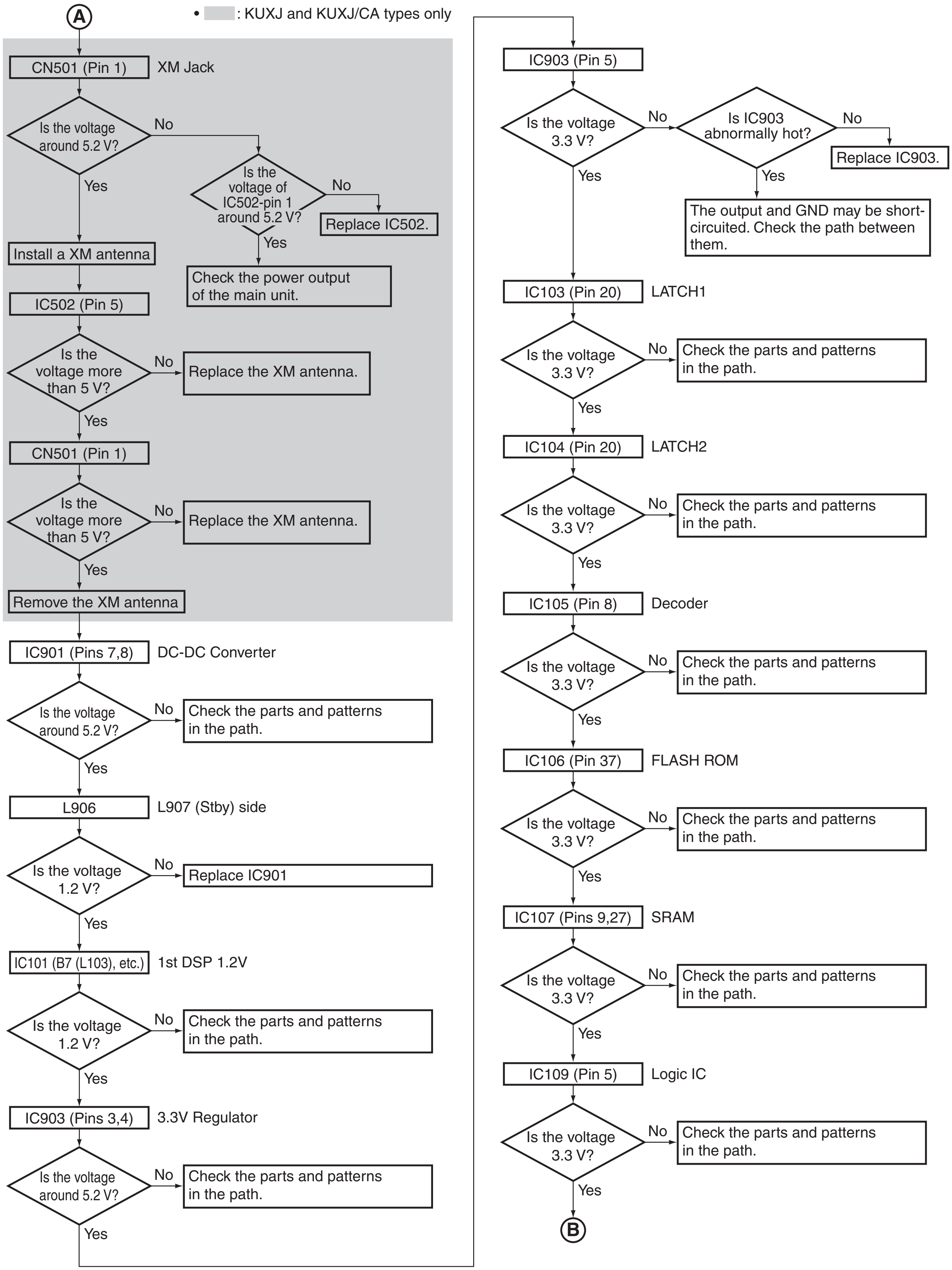

Confirm the following items before checking
Do screws of COAX Jack securely tighten ?
No
Tighten screws securely.
Yes
Does a XM antenna pull off?
No
Pull off a XM antenna.
Yes
To Step 1

Step 1: Connections


CN901, CN401, CN951, CN801
Are the connectors securely inserted?
No
Insert the connectors securely.
Yes
CN301, CN953
Are the FFC securely inserted?
No
Insert the FFCs securely.
Yes
To Step 2

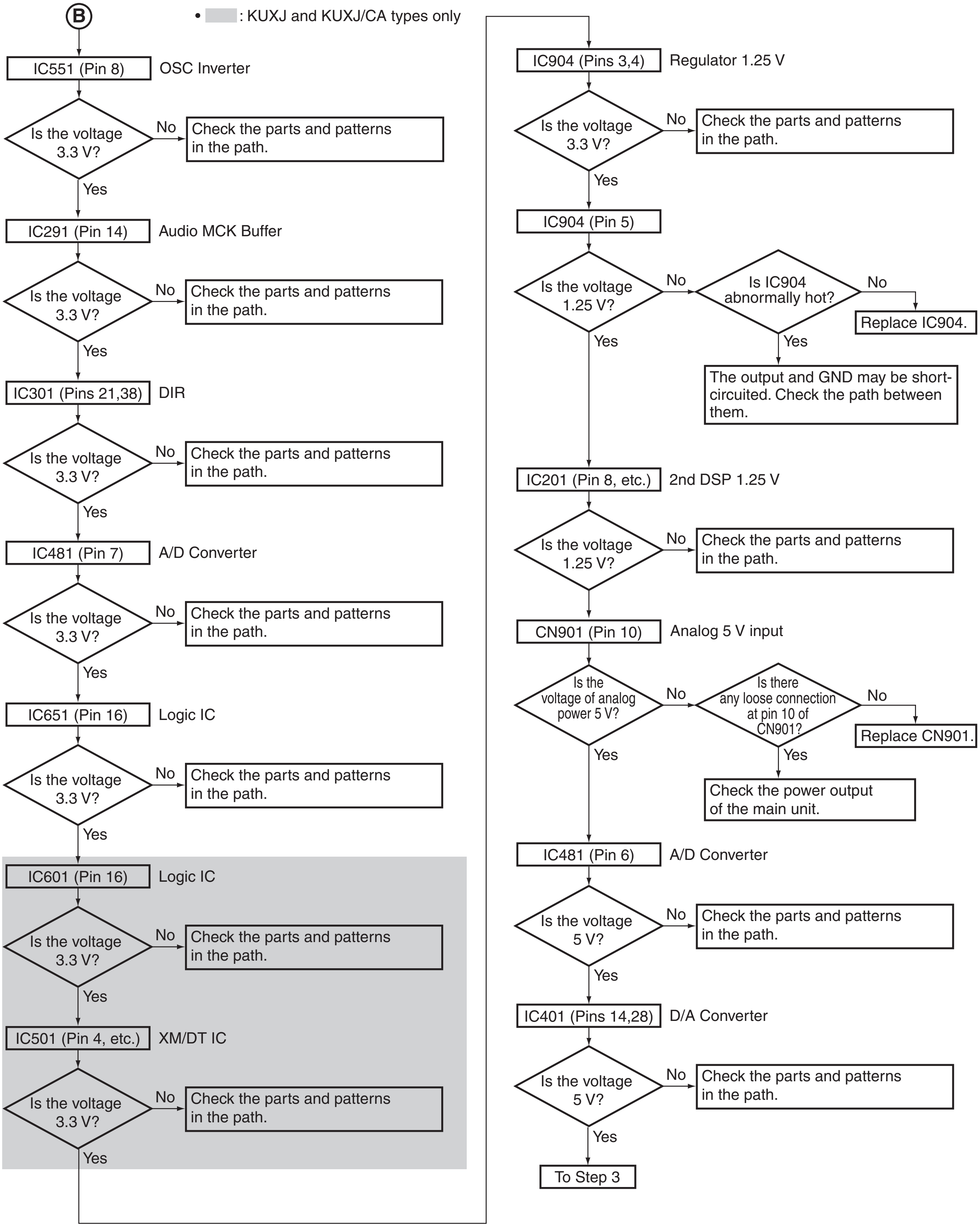
Step 2: Power supply


CN901 (Pins 13,14)
Digital 5 V input
Is the voltage of digital power around 5.2 V?
No
Is there any loose connection at pins 13,14 of CN901?
No
Replace CN901.
Yes
Check the power output of the main unit.
Yes
IC301 (Pin 13)
Is the voltage around 5.2 V?
No
Check the parts and patterns in the path.
Yes
CN301 (Pin 9)
Is the voltage around 5.2 V?
No
Check the parts and patterns in the path.
Yes
IC502 (Pin 5)
XM Load Switch
Is the voltage around 5.2 V?
No
Check the parts and patterns in the path.
Yes
A



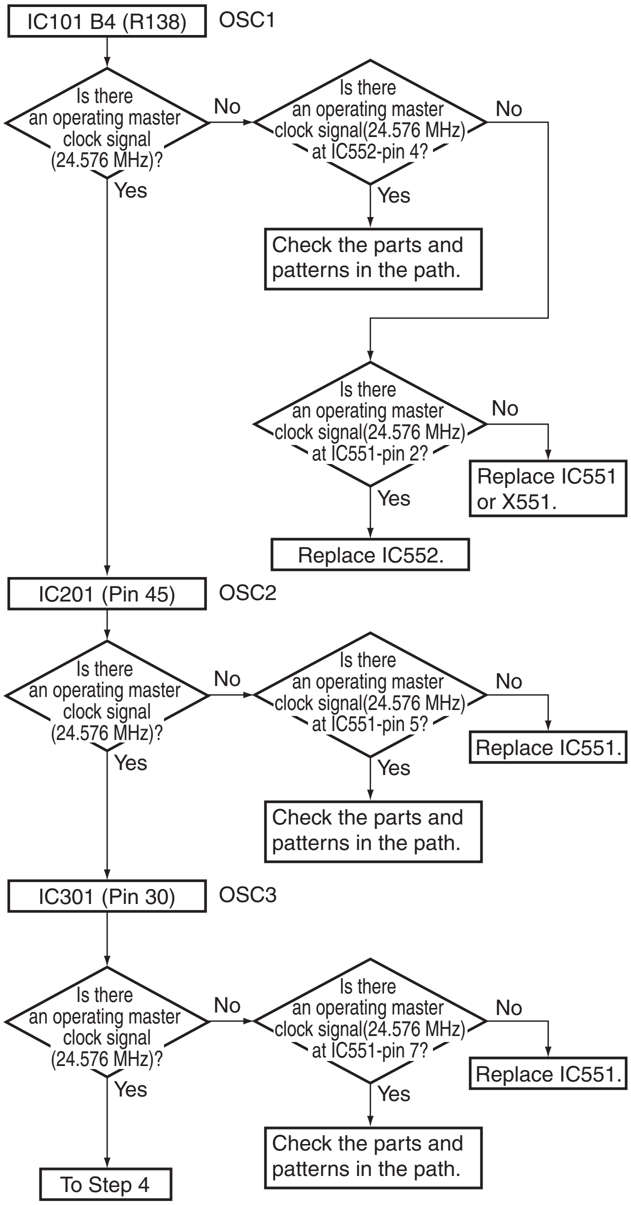
• ▨ : KUXJ and KUXJ/CA types only

A
CN501 (Pin 1)
XM Jack
Is the voltage around 5.2 V?
No
Is the voltage of IC502-pin 1 around 5.2 V?
No
Replace IC502.
Yes
Check the power output of the main unit.
Yes
Install a XM antenna
IC502 (Pin 5)
Is the voltage more than 5 V?
No
Replace the XM antenna.
Yes
CN501 (Pin 1)
Is the voltage more than 5 V?
No
Replace the XM antenna.
Yes
Remove the XM antenna
IC901 (Pins 7,8)
DC-DC Converter
Is the voltage around 5.2 V?
No
Check the parts and patterns in the path.
Yes
L906
L907 (Stby) side
Is the voltage 1.2 V?
No
Replace IC901
Yes
IC101 (B7 (L103), etc.)
1st DSP 1.2V
Is the voltage 1.2 V?
No
Check the parts and patterns in the path.
Yes
IC903 (Pins 3,4)
3.3V Regulator
Is the voltage around 5.2 V?
No
Check the parts and patterns in the path.
Yes
IC903 (Pin 5)
Is the voltage 3.3 V?
No
Is IC903 abnormally hot?
No
Replace IC903.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
IC103 (Pin 20)
LATCH1
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC104 (Pin 20)
LATCH2
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC105 (Pin 8)
Decoder
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC106 (Pin 37)
FLASH ROM
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC107 (Pins 9,27)
SRAM
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC109 (Pin 5)
Logic IC
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
B


B
• ▨ : KUXJ and KUXJ/CA types only
IC551 (Pin 8)
OSC Inverter
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC291 (Pin 14)
Audio MCK Buffer
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC301 (Pins 21,38)
DIR
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC481 (Pin 7)
A/D Converter
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC651 (Pin 16)
Logic IC
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC601 (Pin 16)
Logic IC
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC501 (Pin 4, etc.)
XM/DT IC
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC904 (Pins 3,4)
Regulator 1.25 V
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC904 (Pin 5)
Is the voltage 1.25 V?
No
Is IC904 abnormally hot?
No
Replace IC904.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
IC201 (Pin 8, etc.)
2nd DSP 1.25 V
Is the voltage 1.25 V?
No
Check the parts and patterns in the path.
CN901 (Pin 10)
Analog 5 V input
Is the voltage of analog power 5 V?
No
Is there any loose connection at pin 10 of CN901?
No
Replace CN901.
Yes
Check the power output of the main unit.
Yes
IC481 (Pin 6)
A/D Converter
Is the voltage 5 V?
No
Check the parts and patterns in the path.
Yes
IC401 (Pins 14,28)
D/A Converter
Is the voltage 5 V?
No
Check the parts and patterns in the path.
Yes
To Step 3

Step 3: Operating Master Clock

- ▨ : KUXJ and KUXJ/CA types only


IC101 B4 (R138)
OSC1
Is there an operating master clock signal (24.576 MHz)?
No
Is there an operating master clock signal(24.576 MHz) at IC552-pin 4?
No
Yes
Yes
Check the parts and patterns in the path.
Is there an operating master clock signal(24.576 MHz) at IC551-pin 2?
No
Yes
Replace IC551 or X551.
Replace IC552.
IC201 (Pin 45)
OSC2
Is there an operating master clock signal (24.576 MHz)?
No
Is there an operating master clock signal(24.576 MHz) at IC551-pin 5?
No
Yes
Yes
Replace IC551.
Check the parts and patterns in the path.
IC301 (Pin 30)
OSC3
Is there an operating master clock signal (24.576 MHz)?
No
Is there an operating master clock signal(24.576 MHz) at IC551-pin 7?
No
Yes
Yes
Replace IC551.
Check the parts and patterns in the path.
To Step 4

Step 4: Audio Clock (Until Switch)

- When a sound is not out with the digital (COAX, OPT IN) signal input. → Go to Step 4-1
- When a sound is not out with the analog signal input. → Go to Step 4-2
- When a sound is not out with the HDMI. (It is assumed that failure diagnosis of HDMI Assy has been completed.)

(I2S path)
When the source is “dts HD Master Audio”, “Dolby True HD”, “PCM or LPCM at or above the sampling rate of 88.2kHz” or “LPCM Multi ch”. → Go to Step 4-3-1

(S/PDIF path)
When the source is “dts HD High Resolution Audio”, “dts HD LBR”, “Dolby Digital Plus”, “2ch at or below the sampling rate of 48kHz), or “other compression streams”. → Go to Step 4-1

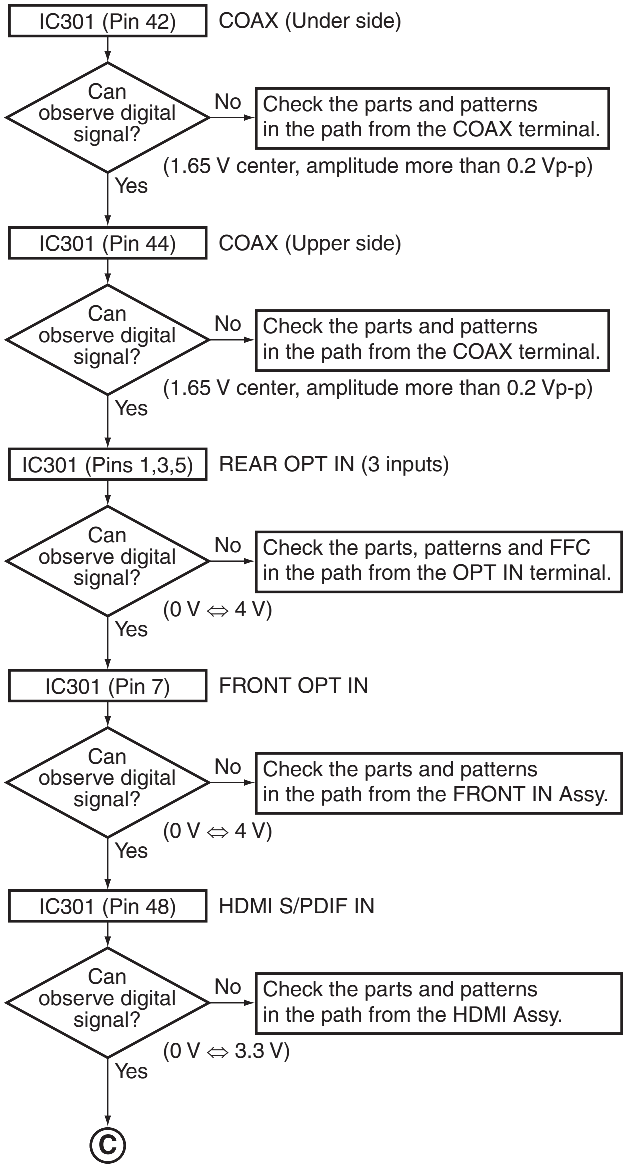
(DSD)
When the source is SACD. → Go to Step 4-3-3

- When a sound is not out with the XM Radio. → Go to Step 4-4
- When a sound is not out with the USB (It is assumed that the failure diagnosis of USB Assy has been completed.) → Go to Step 4-5

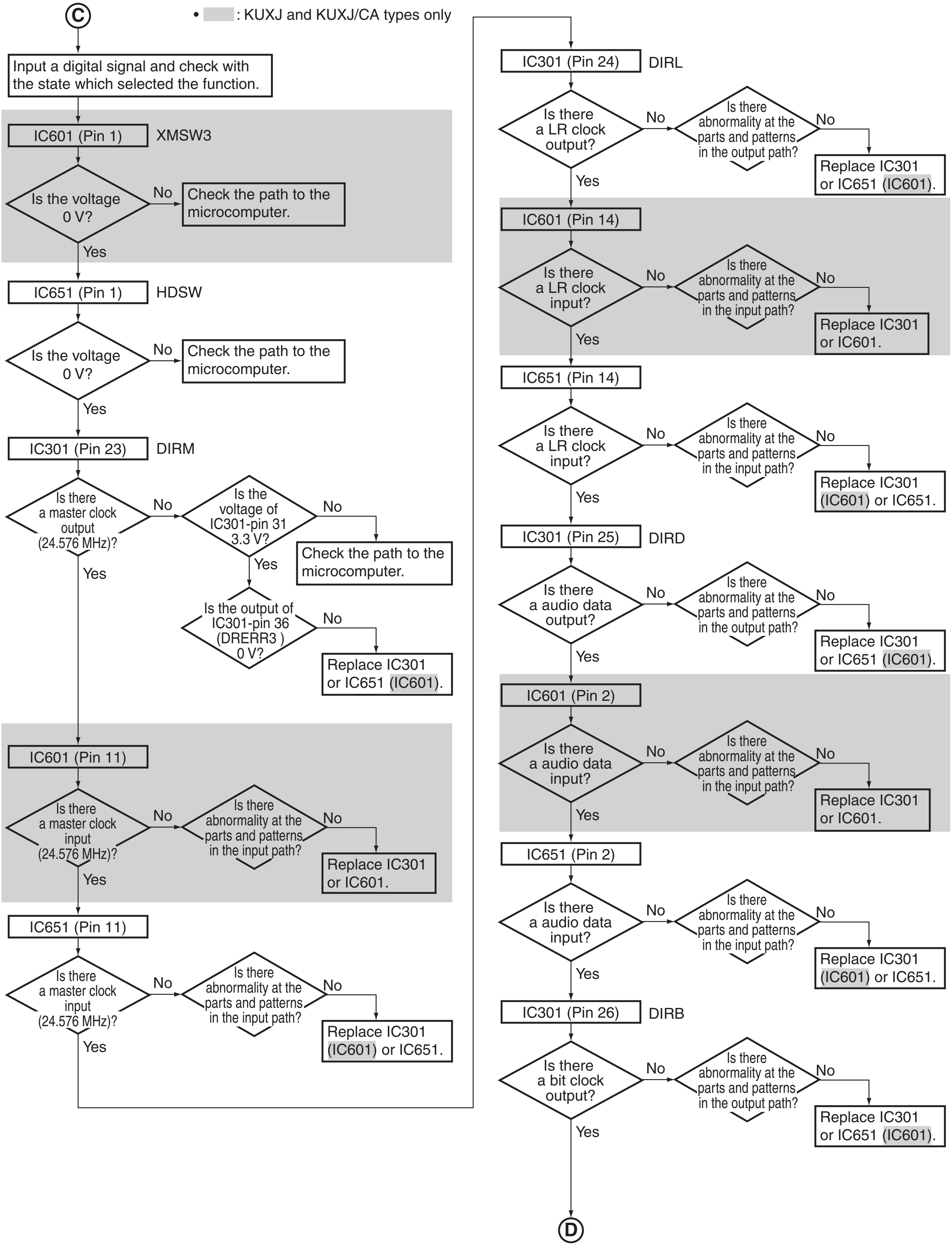
except KU models

Step 4-1: When a sound is not out with the digital (COAX, OPT IN) signal input

When the source in the digital (COAX, OPT IN) or the HDMI path is “dts HD High Resolution Audio”, “dts HD LBR”, “Dolby Digital Plus”, “2ch at or below the sampling rate of 48kHz” or “other compression streams”.
Check that changes by pulling out and inserting the digital input lines. (Function is able to change the assignment. Therefore it is not specified.)

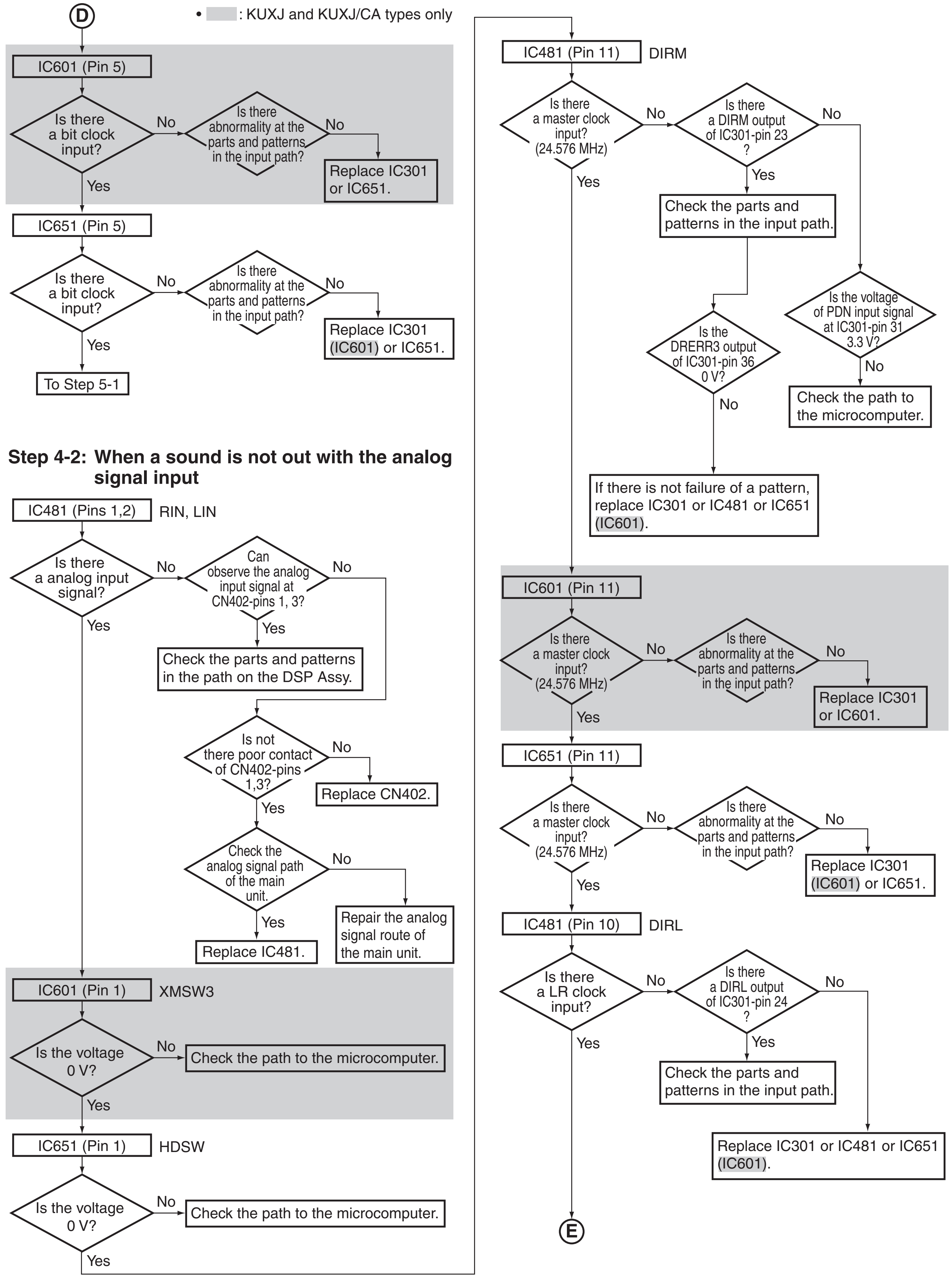

IC301 (Pin 42)
COAX (Under side)
Can observe digital signal?
No
Check the parts and patterns in the path from the COAX terminal.
(1.65 V center, amplitude more than 0.2 Vp-p)
Yes
IC301 (Pin 44)
COAX (Upper side)
Can observe digital signal?
No
Check the parts and patterns in the path from the COAX terminal.
(1.65 V center, amplitude more than 0.2 Vp-p)
Yes
IC301 (Pins 1,3,5)
REAR OPT IN (3 inputs)
Can observe digital signal?
No
Check the parts, patterns and FFC in the path from the OPT IN terminal.
(0 V ⇔ 4 V)
Yes
IC301 (Pin 7)
FRONT OPT IN
Can observe digital signal?
No
Check the parts and patterns in the path from the FRONT IN Assy.
(0 V ⇔ 4 V)
Yes
IC301 (Pin 48)
HDMI S/PDIF IN
Can observe digital signal?
No
Check the parts and patterns in the path from the HDMI Assy.
(0 V ⇔ 3.3 V)
Yes
Ⓒ

• ▒ : KUXJ and KUXJ/CA types only

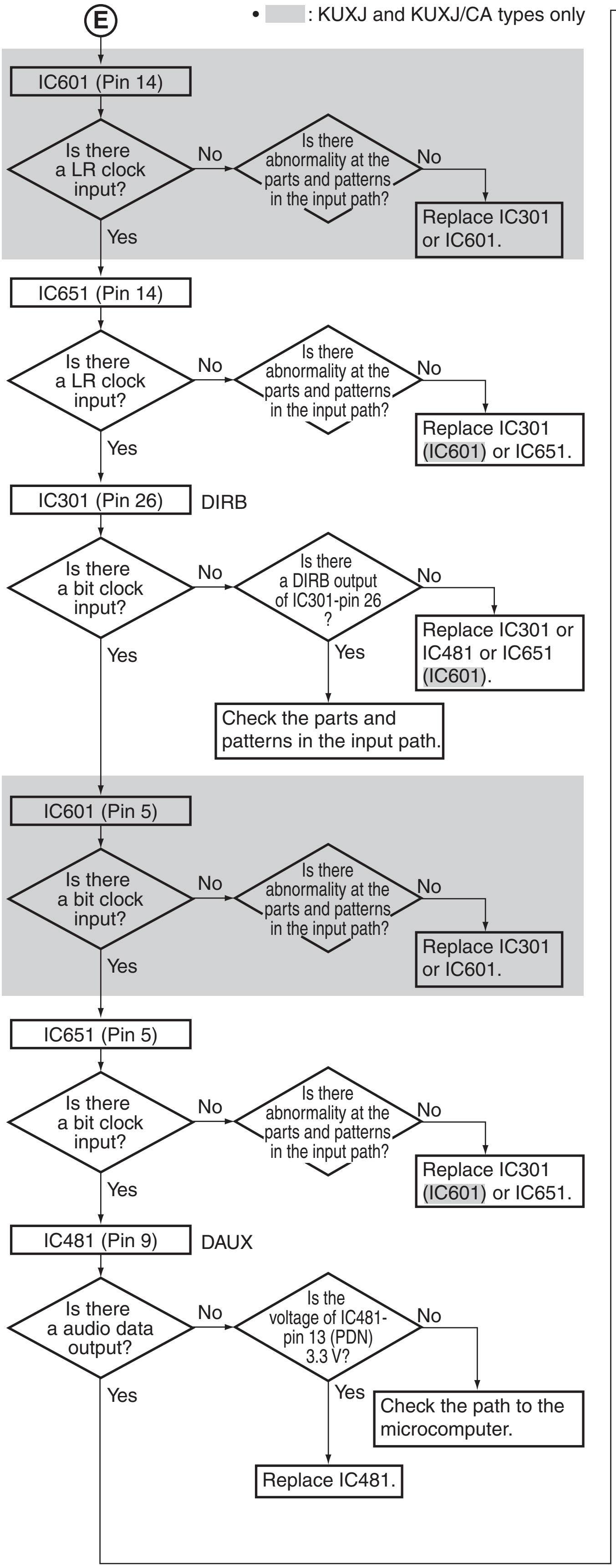

C
Input a digital signal and check with the state which selected the function.
IC601 (Pin 1)
XMSW3
Is the voltage 0 V?
No
Check the path to the microcomputer.
Yes
IC651 (Pin 1)
HDSW
Is the voltage 0 V?
No
Check the path to the microcomputer.
Yes
IC301 (Pin 23)
DIRM
Is there a master clock output (24.576 MHz)?
No
Is the voltage of IC301-pin 31 3.3 V?
No
Check the path to the microcomputer.
Yes
Is the output of IC301-pin 36 (DRERR3) 0 V?
No
Replace IC301 or IC651 (IC601).
Yes
IC601 (Pin 11)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 11)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC301 (Pin 24)
DIRL
Is there a LR clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651 (IC601).
Yes
IC601 (Pin 14)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 14)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC301 (Pin 25)
DIRD
Is there a audio data output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651 (IC601).
Yes
IC601 (Pin 2)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 2)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC301 (Pin 26)
DIRB
Is there a bit clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651 (IC601).
Yes
D

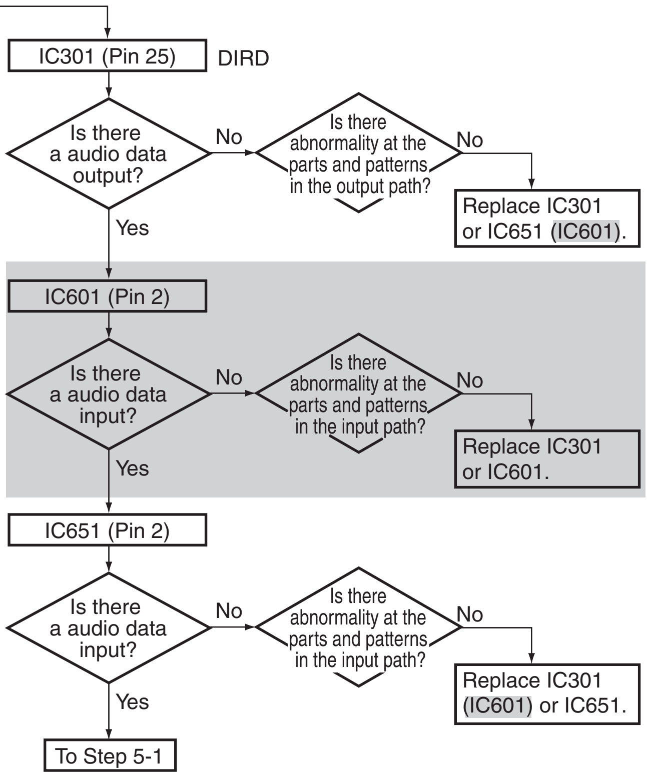
• ▨ : KUXJ and KUXJ/CA types only

Step 4-2: When a sound is not out with the analog signal input

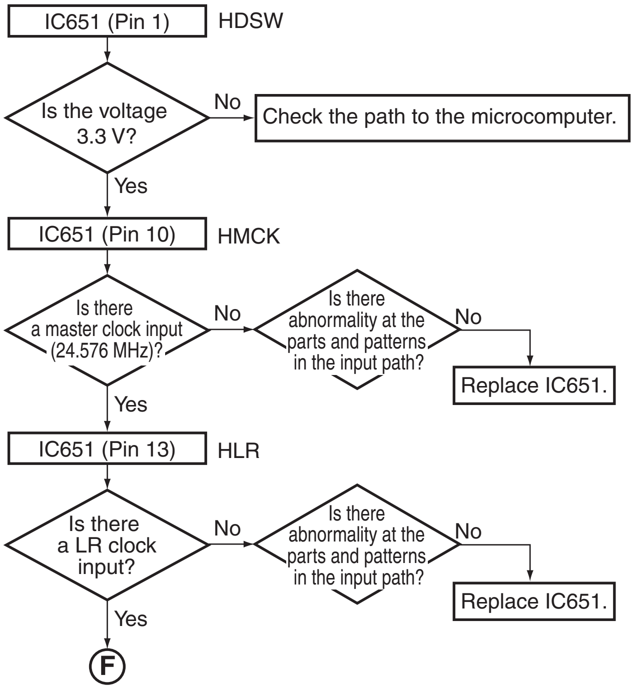

D
IC601 (Pin 5)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC651.
Yes
IC651 (Pin 5)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
To Step 5-1
IC481 (Pins 1,2)
RIN, LIN
Is there a analog input signal?
No
Can observe the analog input signal at CN402-pins 1, 3?
No
Yes
Check the parts and patterns in the path on the DSP Assy.
Yes
Is not there poor contact of CN402-pins 1,3?
No
Replace CN402.
Yes
Check the analog signal path of the main unit.
No
Repair the analog signal route of the main unit.
Yes
Replace IC481.
IC601 (Pin 1)
XMSW3
Is the voltage 0 V?
No
Check the path to the microcomputer.
Yes
IC651 (Pin 1)
HDSW
Is the voltage 0 V?
No
Check the path to the microcomputer.
Yes
IC481 (Pin 11)
DIRM
Is there a master clock input? (24.576 MHz)
No
Is there a DIRM output of IC301-pin 23 ?
No
Yes
Check the parts and patterns in the input path.
Is the voltage of PDN input signal at IC301-pin 31 3.3 V?
No
Check the path to the microcomputer.
Is the DRERR3 output of IC301-pin 36 0 V?
No
If there is not failure of a pattern, replace IC301 or IC481 or IC651 (IC601).
Yes
IC601 (Pin 11)
Is there a master clock input? (24.576 MHz)
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 11)
Is there a master clock input? (24.576 MHz)
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC481 (Pin 10)
DIRL
Is there a LR clock input?
No
Is there a DIRL output of IC301-pin 24 ?
No
Yes
Check the parts and patterns in the input path.
Replace IC301 or IC481 or IC651 (IC601).
Yes
E

- ▨ : KUXJ and KUXJ/CA types only

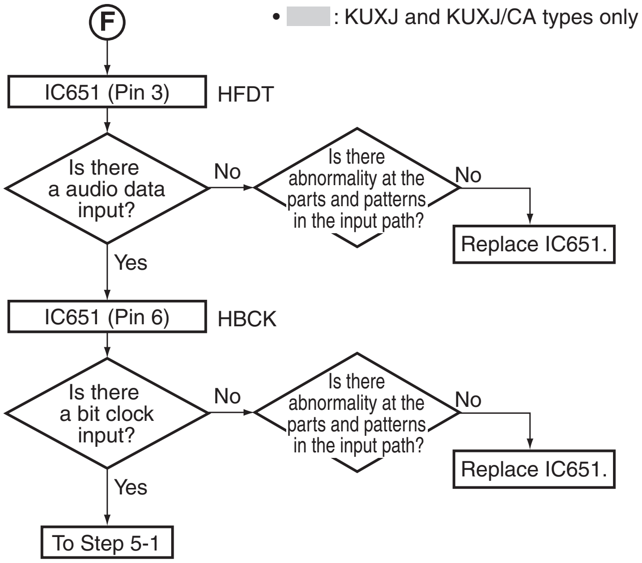

E
IC601 (Pin 14)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 14)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC301 (Pin 26) DIRB
Is there a bit clock input?
No
Is there a DIRB output of IC301-pin 26 ?
No
Replace IC301 or IC481 or IC651 (IC601).
Yes
Check the parts and patterns in the input path.
Yes
IC601 (Pin 5)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 5)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC481 (Pin 9) DAUX
Is there a audio data output?
No
Is the voltage of IC481-pin 13 (PDN) 3.3 V?
No
Check the path to the microcomputer.
Yes
Replace IC481.
Yes


IC301 (Pin 25) DIRD
Is there a audio data output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651 (IC601).
Yes
IC601 (Pin 2)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 2)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
To Step 5-1

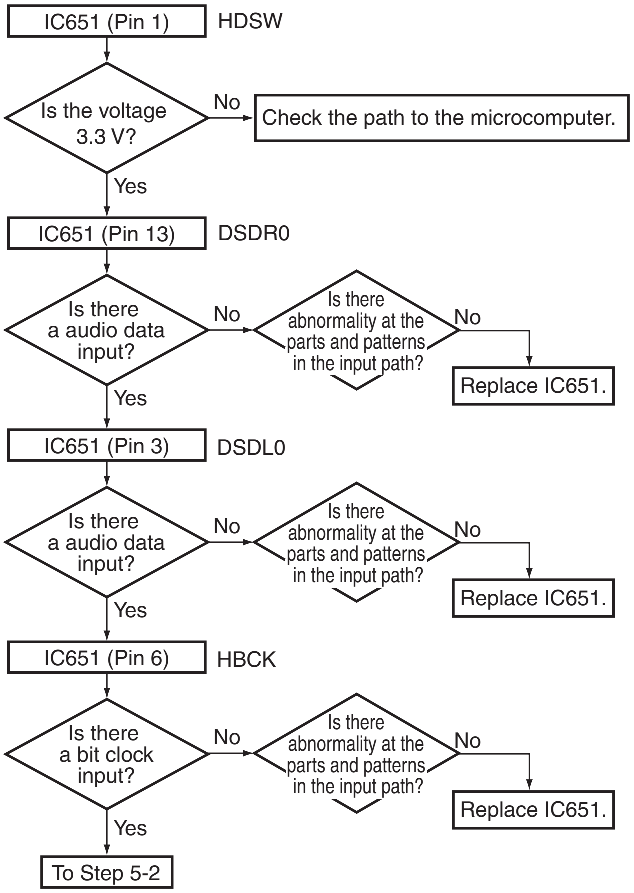
Step 4-3-1: When a sound is not out with the HDMI (When the source is “dts HD Master Audio”, “Dolby True HD”, “PCM or LPCM at or above the sampling rate of 88.2kHz” or “LPCM Multi ch”)


IC651 (Pin 1) HDSW
Is the voltage 3.3 V?
No
Check the path to the microcomputer.
Yes
IC651 (Pin 10) HMCK
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC651.
Yes
IC651 (Pin 13) HLR
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC651.
Yes
F

- ▨ : KUXJ and KUXJ/CA types only

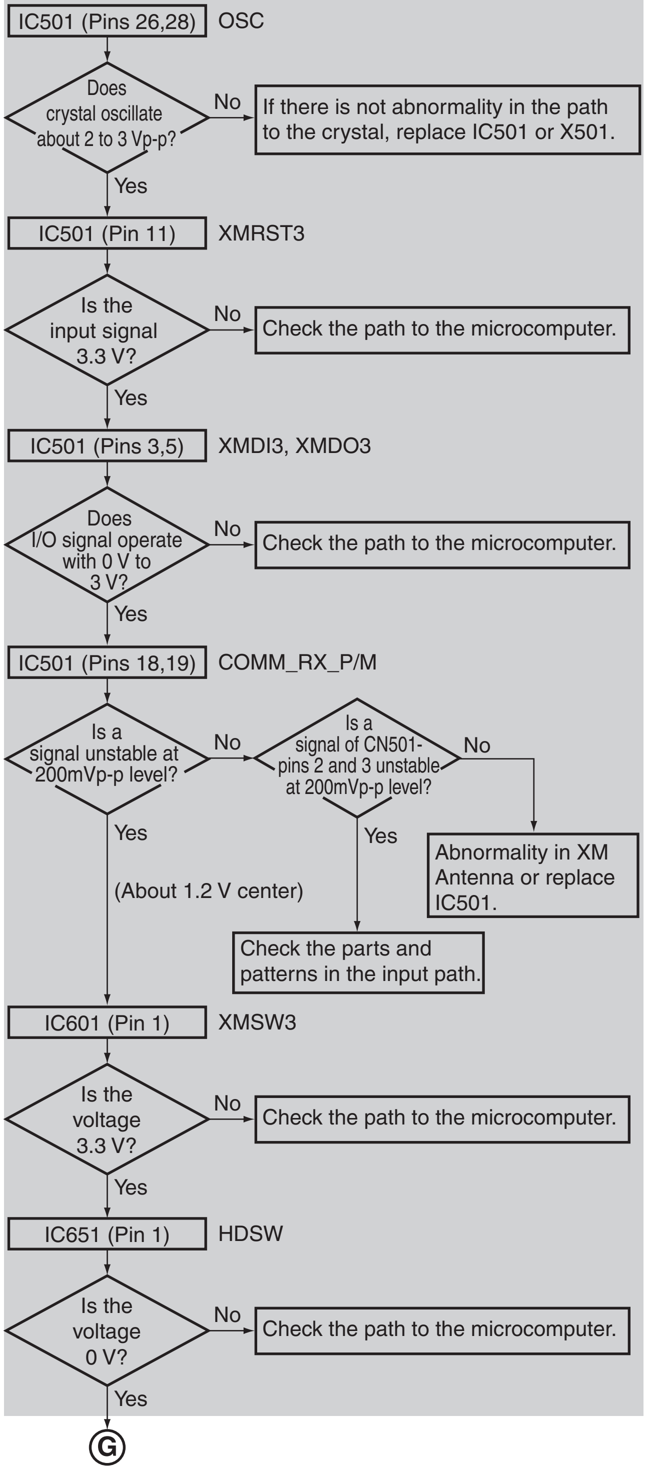

F
IC651 (Pin 3)
HFDT
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC651.
Yes
IC651 (Pin 6)
HBCK
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC651.
Yes
To Step 5-1

Step 4-3-2: When a sound is not out with the HDMI (When the source is SACD)

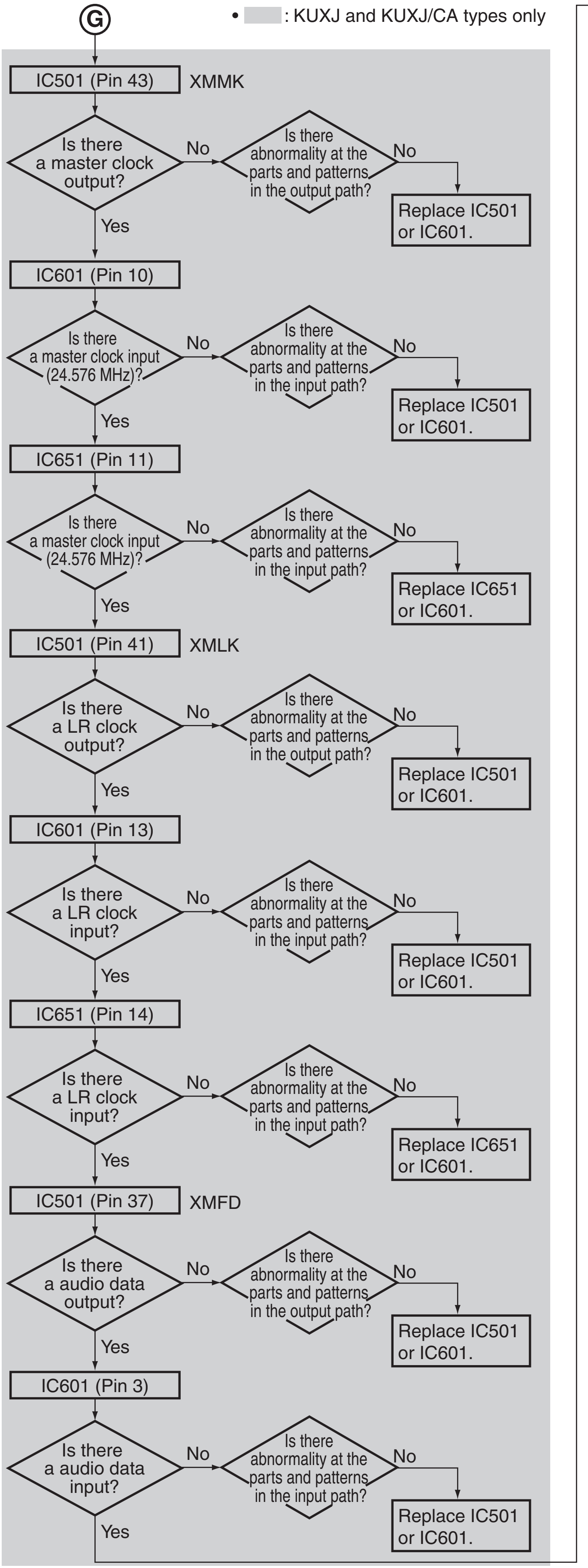

IC651 (Pin 1)
HDSW
Is the voltage 3.3 V?
No
Check the path to the microcomputer.
Yes
IC651 (Pin 13)
DSDR0
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC651.
Yes
IC651 (Pin 3)
DSDL0
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC651.
Yes
IC651 (Pin 6)
HBCK
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC651.
Yes
To Step 5-2

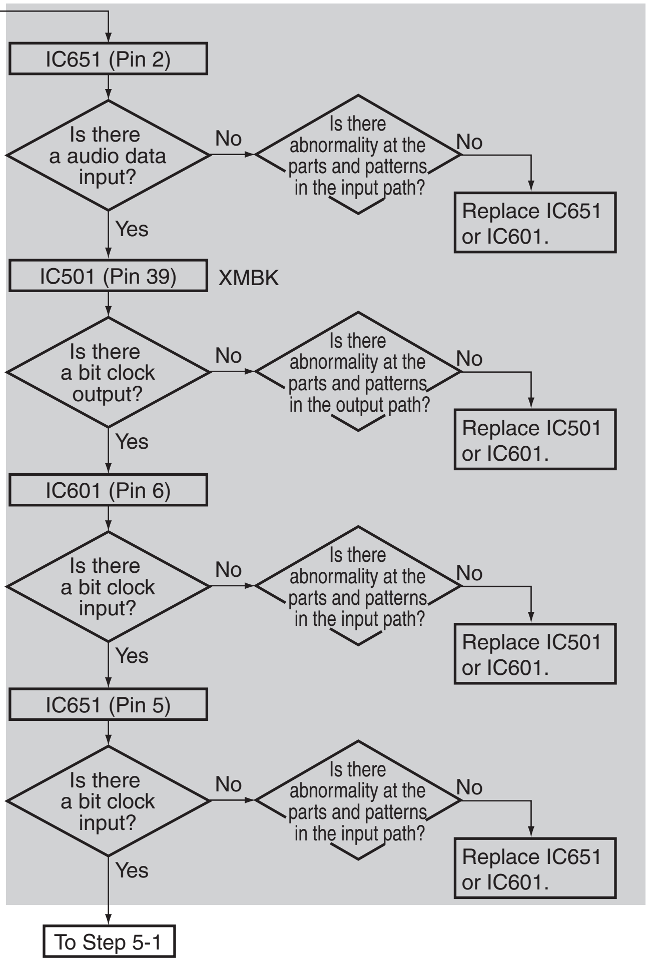
Step 4-4: When a sound is not out with the XM Radio

Insert the XM Antenna and check it.

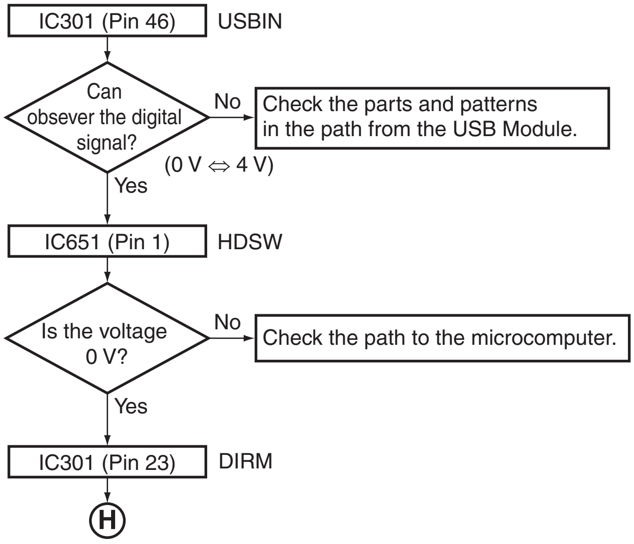

IC501 (Pins 26,28)
OSC
Does crystal oscillate about 2 to 3 Vp-p?
No
If there is not abnormality in the path to the crystal, replace IC501 or X501.
Yes
IC501 (Pin 11)
XMRST3
Is the input signal 3.3 V?
No
Check the path to the microcomputer.
Yes
IC501 (Pins 3,5)
XMDI3, XMDO3
Does I/O signal operate with 0 V to 3 V?
No
Check the path to the microcomputer.
Yes
IC501 (Pins 18,19)
COMM_RX_P/M
Is a signal unstable at 200mVp-p level?
No
Is a signal of CN501-pins 2 and 3 unstable at 200mVp-p level?
No
Abnormality in XM Antenna or replace IC501.
Yes
Check the parts and patterns in the input path.
Yes
(About 1.2 V center)
IC601 (Pin 1)
XMSW3
Is the voltage 3.3 V?
No
Check the path to the microcomputer.
Yes
IC651 (Pin 1)
HDSW
Is the voltage 0 V?
No
Check the path to the microcomputer.
Yes
G

- ▨ : KUXJ and KUXJ/CA types only

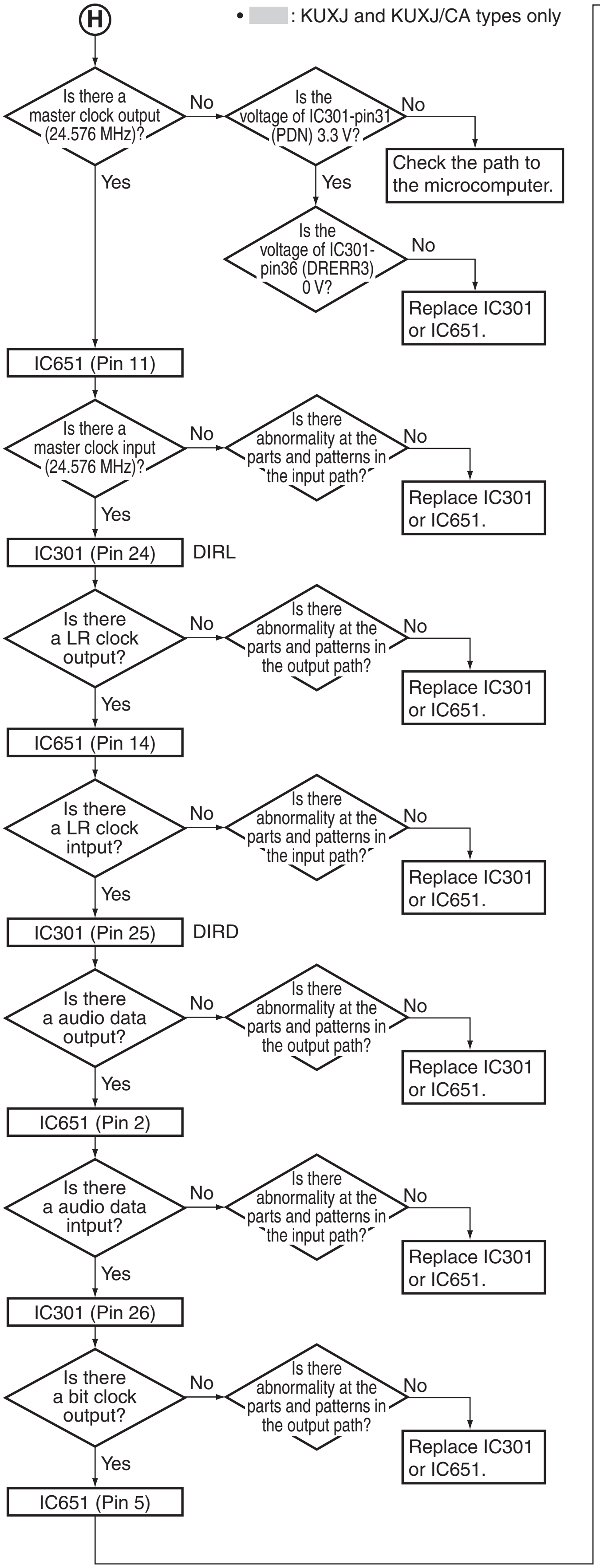

G
IC501 (Pin 43)
XMMK
Is there a master clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC501 or IC601.
Yes
IC601 (Pin 10)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC501 or IC601.
Yes
IC651 (Pin 11)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC651 or IC601.
Yes
IC501 (Pin 41)
XMLK
Is there a LR clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC501 or IC601.
Yes
IC601 (Pin 13)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC501 or IC601.
Yes
IC651 (Pin 14)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC651 or IC601.
Yes
IC501 (Pin 37)
XMFD
Is there a audio data output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC501 or IC601.
Yes
IC601 (Pin 3)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC501 or IC601.
Yes

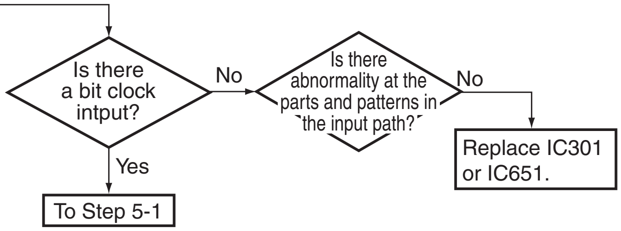

IC651 (Pin 2)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC651 or IC601.
Yes
IC501 (Pin 39)
XMBK
Is there a bit clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC501 or IC601.
Yes
IC601 (Pin 6)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC501 or IC601.
Yes
IC651 (Pin 5)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC651 or IC601.
Yes
To Step 5-1

Step 4-5: When a sound is not with the USB (except KU models)

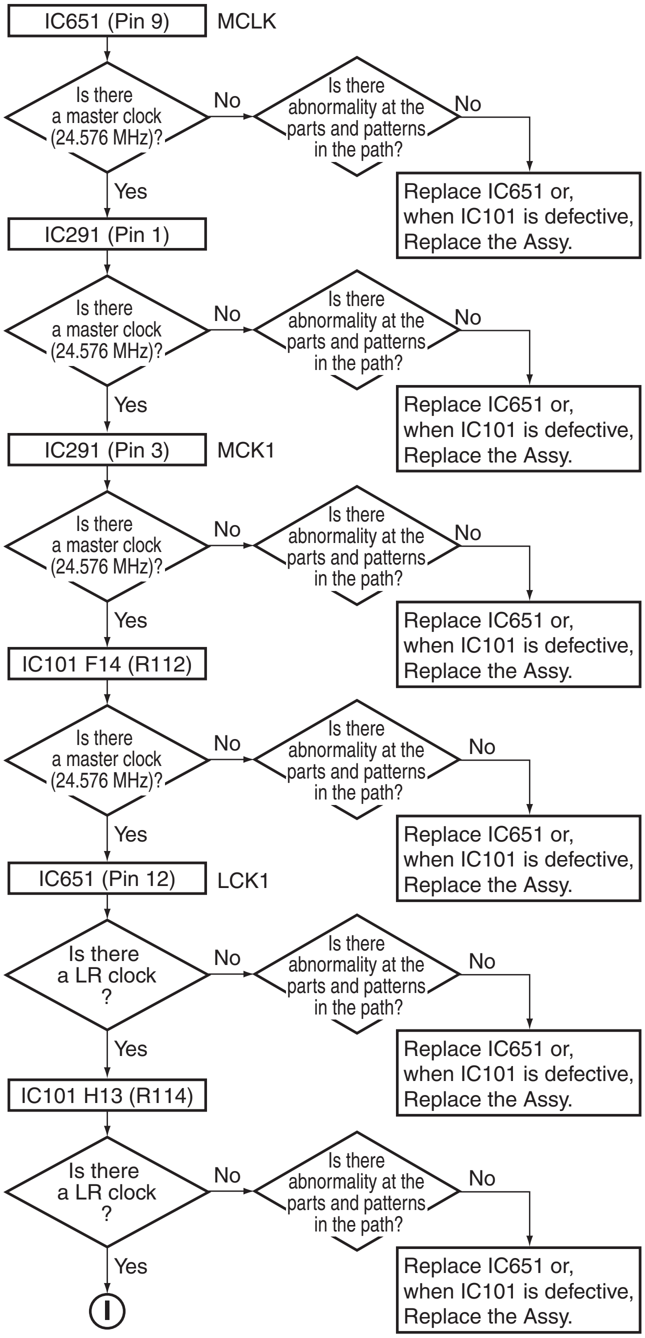

IC301 (Pin 46)
USBIN
Can observer the digital signal?
No
Check the parts and patterns in the path from the USB Module.
(0 V ⇔ 4 V)
Yes
IC651 (Pin 1)
HDSW
Is the voltage 0 V?
No
Check the path to the microcomputer.
Yes
IC301 (Pin 23)
DIRM
H

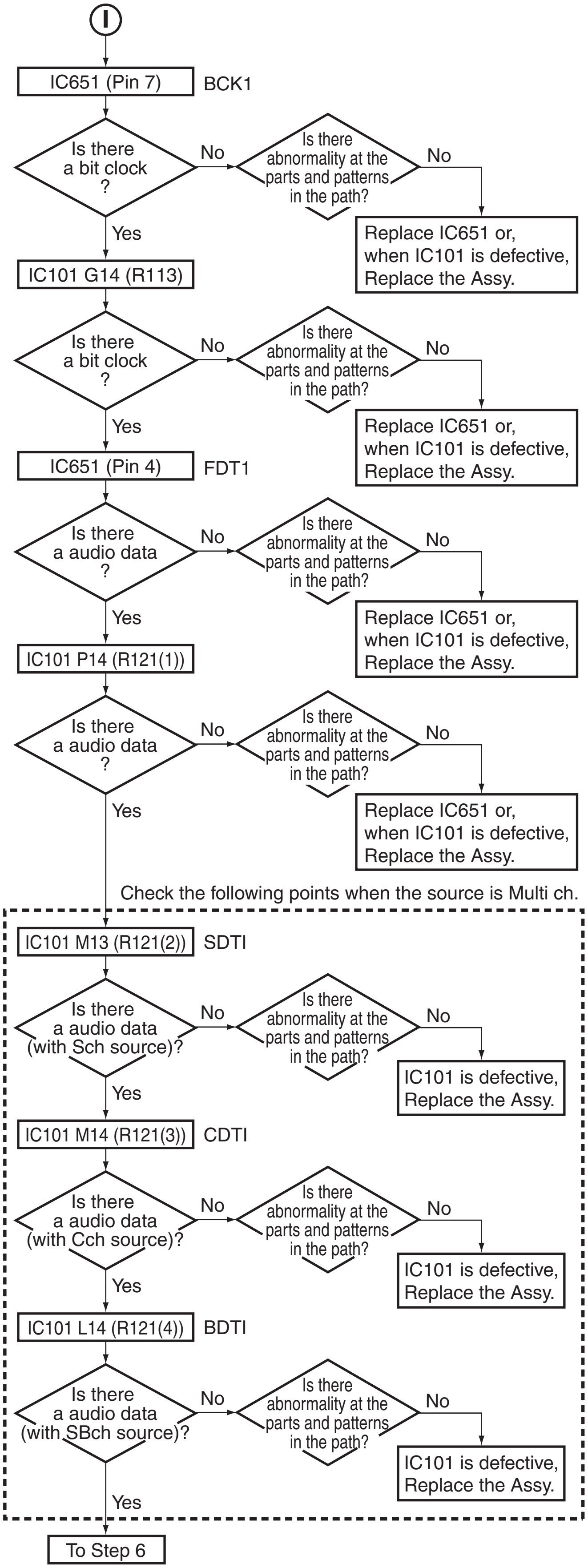
• ▨ : KUXJ and KUXJ/CA types only


H
Is there a master clock output (24.576 MHz)?
No
Is the voltage of IC301-pin31 (PDN) 3.3 V?
No
Check the path to the microcomputer.
Yes
Is the voltage of IC301-pin36 (DRERR3) 0 V?
No
Replace IC301 or IC651.
Yes
IC651 (Pin 11)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC651.
Yes
IC301 (Pin 24)
DIRL
Is there a LR clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651.
Yes
IC651 (Pin 14)
Is there a LR clock intput?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC651.
Yes
IC301 (Pin 25)
DIRD
Is there a audio data output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651.
Yes
IC651 (Pin 2)
Is there a audio data intput?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC651.
Yes
IC301 (Pin 26)
Is there a bit clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651.
Yes
IC651 (Pin 5)

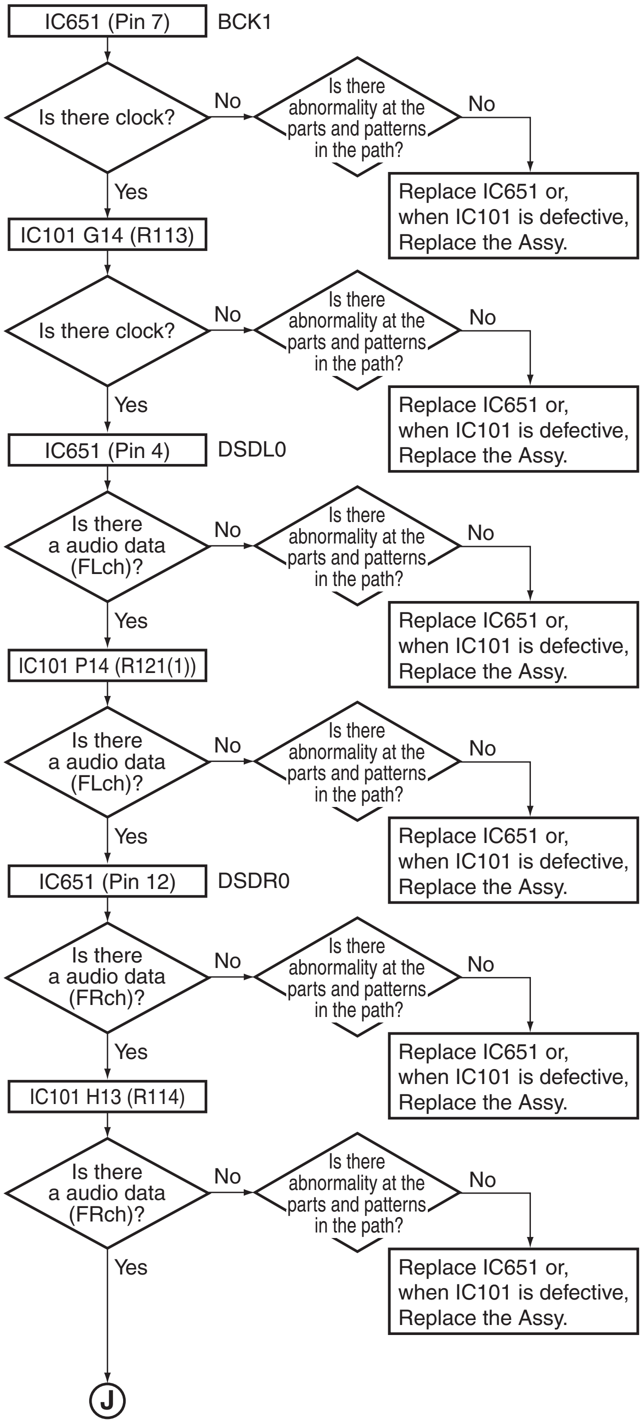

Is there a bit clock intput?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC651.
Yes
To Step 5-1

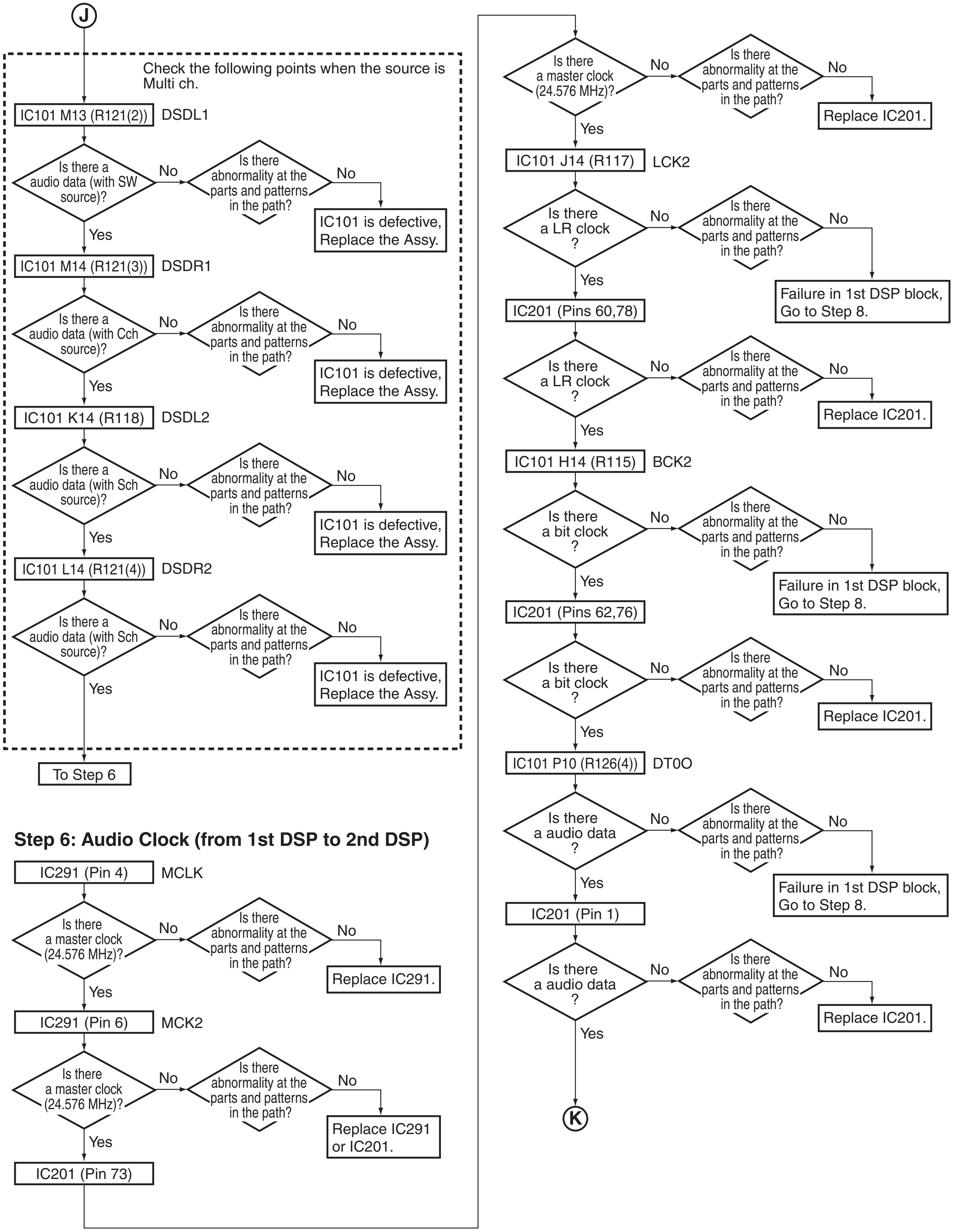
Step 5-1: Audio Clock (from Switch to 1st DSP)


IC651 (Pin 9)
MCLK
Is there a master clock (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC291 (Pin 1)
Is there a master clock (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC291 (Pin 3)
MCK1
Is there a master clock (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC101 F14 (R112)
Is there a master clock (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC651 (Pin 12)
LCK1
Is there a LR clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC101 H13 (R114)
Is there a LR clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
I


I
IC651 (Pin 7)
BCK1
Is there a bit clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC101 G14 (R113)
Is there a bit clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC651 (Pin 4)
FDT1
Is there a audio data ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC101 P14 (R121(1))
Is there a audio data ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
Check the following points when the source is Multi ch.
IC101 M13 (R121(2))
SDTI
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
IC101 is defective, Replace the Assy.
Yes
IC101 M14 (R121(3))
CDTI
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
IC101 is defective, Replace the Assy.
Yes
IC101 L14 (R121(4))
BDTI
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
IC101 is defective, Replace the Assy.
Yes
To Step 6

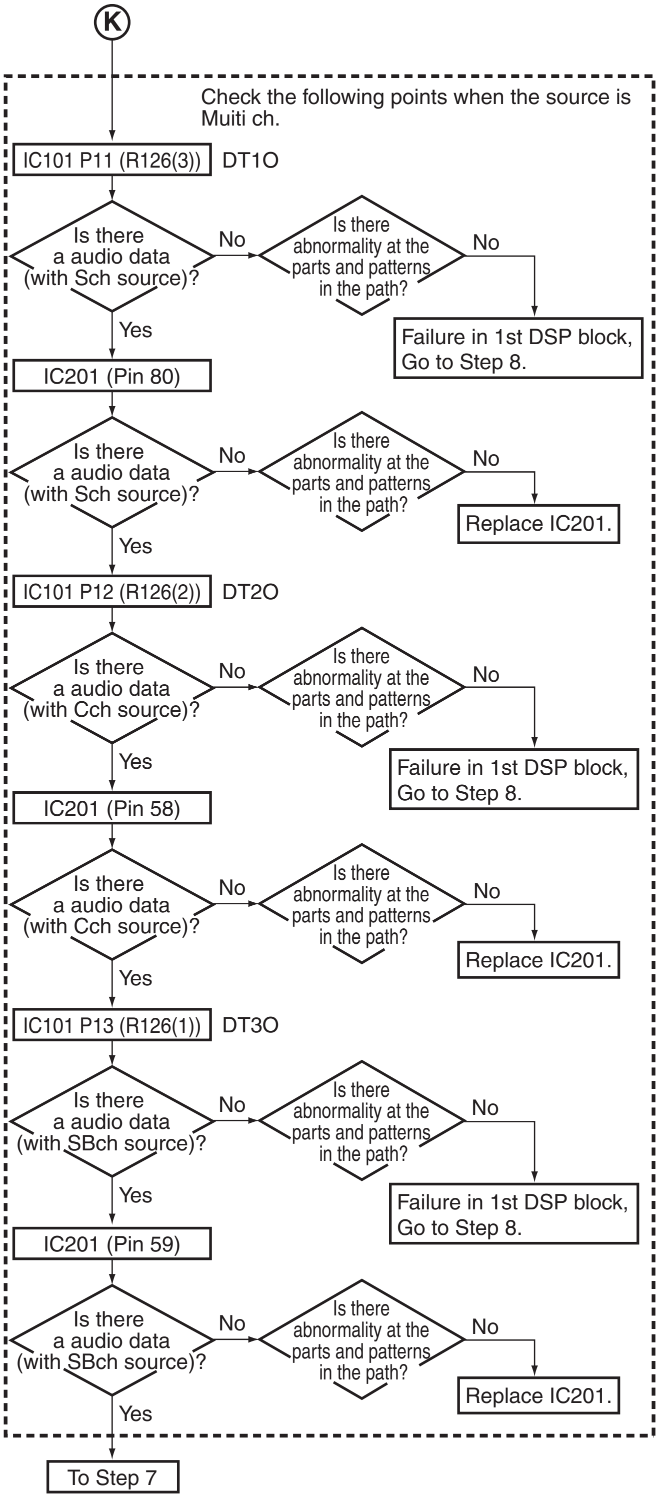
Step 5-2: Audio Clock & Data (in the case of SACD to 1st DSP)


IC651 (Pin 7)
BCK1
Is there clock?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC101 G14 (R113)
Is there clock?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC651 (Pin 4)
DSDL0
Is there a audio data (FLch)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC101 P14 (R121(1))
Is there a audio data (FLch)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC651 (Pin 12)
DSDR0
Is there a audio data (FRch)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
IC101 H13 (R114)
Is there a audio data (FRch)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC651 or, when IC101 is defective, Replace the Assy.
Yes
J

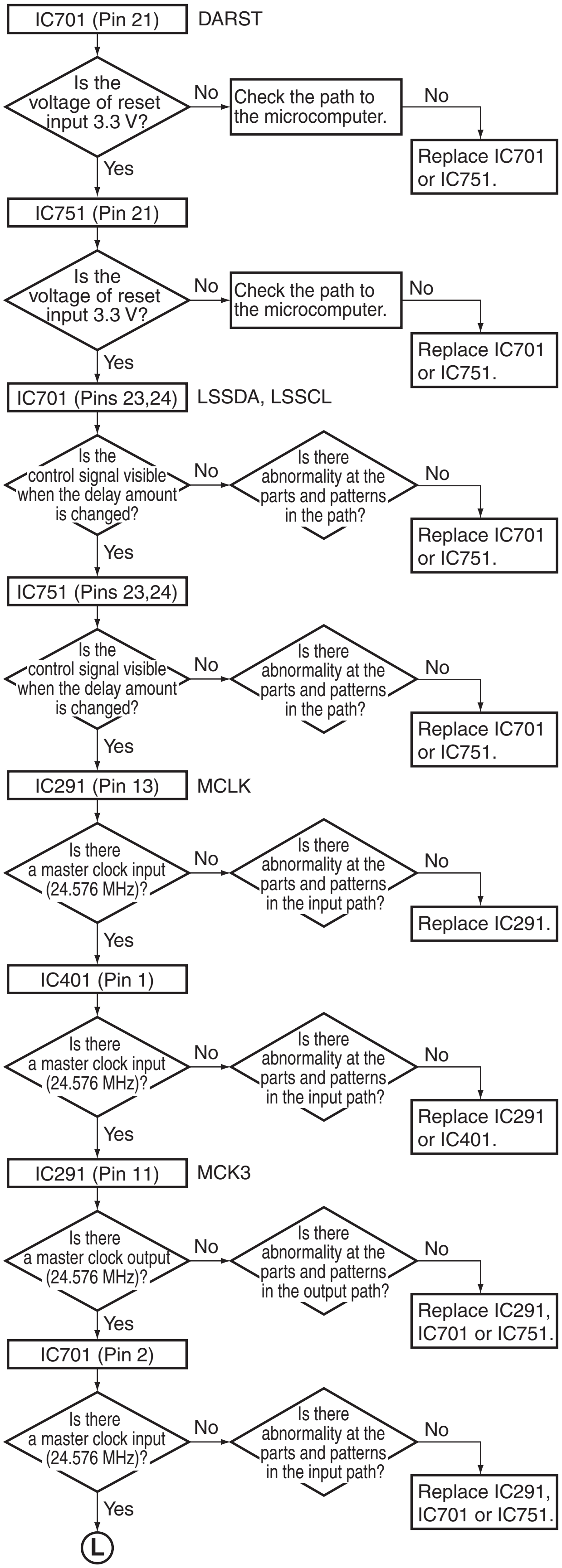

J
Check the following points when the source is Multi ch.
IC101 M13 (R121(2))
DSDL1
Is there a audio data (with SW source)?
No
Is there abnormality at the parts and patterns in the path?
No
IC101 is defective, Replace the Assy.
Yes
IC101 M14 (R121(3))
DSDR1
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
IC101 is defective, Replace the Assy.
Yes
IC101 K14 (R118)
DSDL2
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
IC101 is defective, Replace the Assy.
Yes
IC101 L14 (R121(4))
DSDR2
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
IC101 is defective, Replace the Assy.
Yes
To Step 6

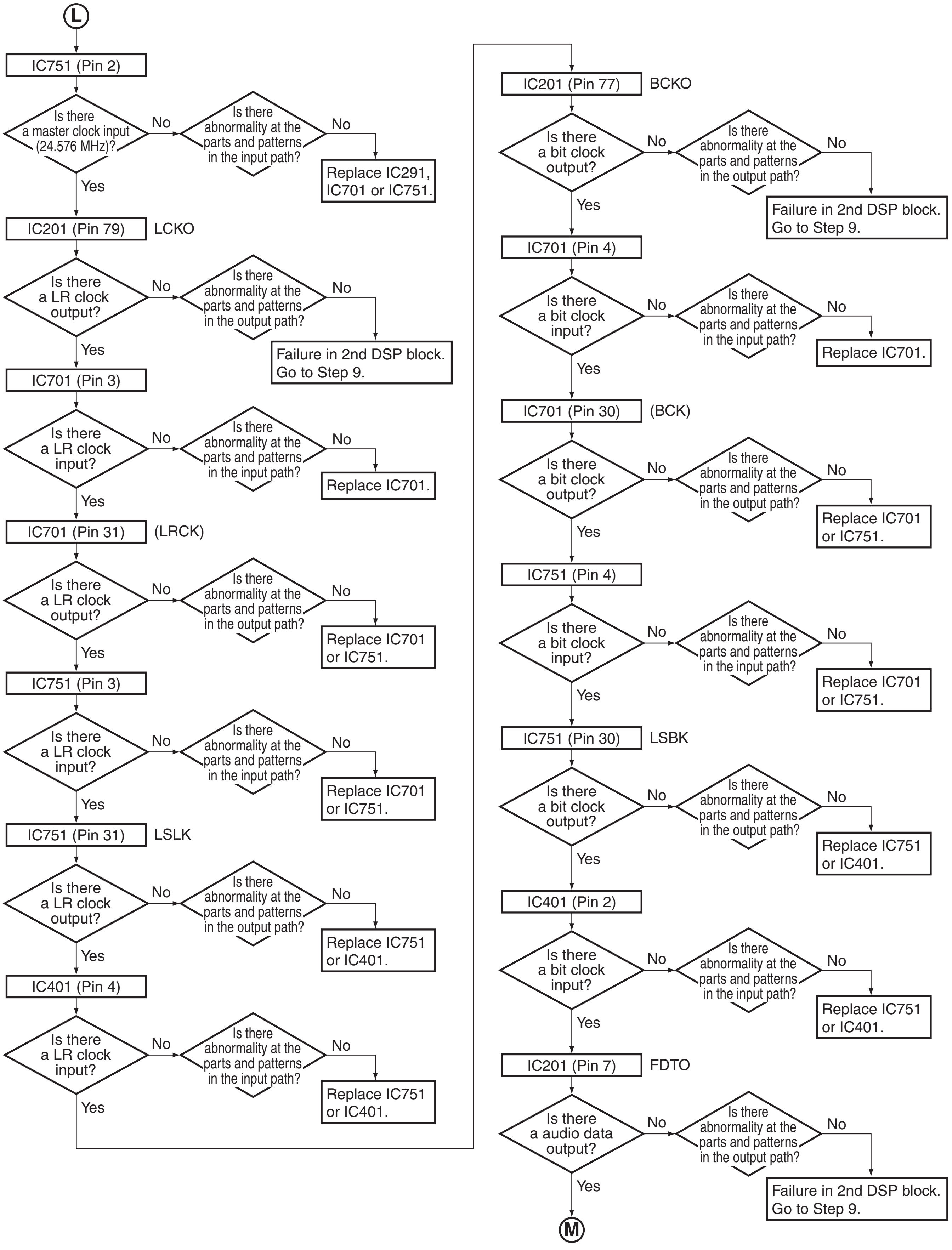
Step 6: Audio Clock (from 1st DSP to 2nd DSP)

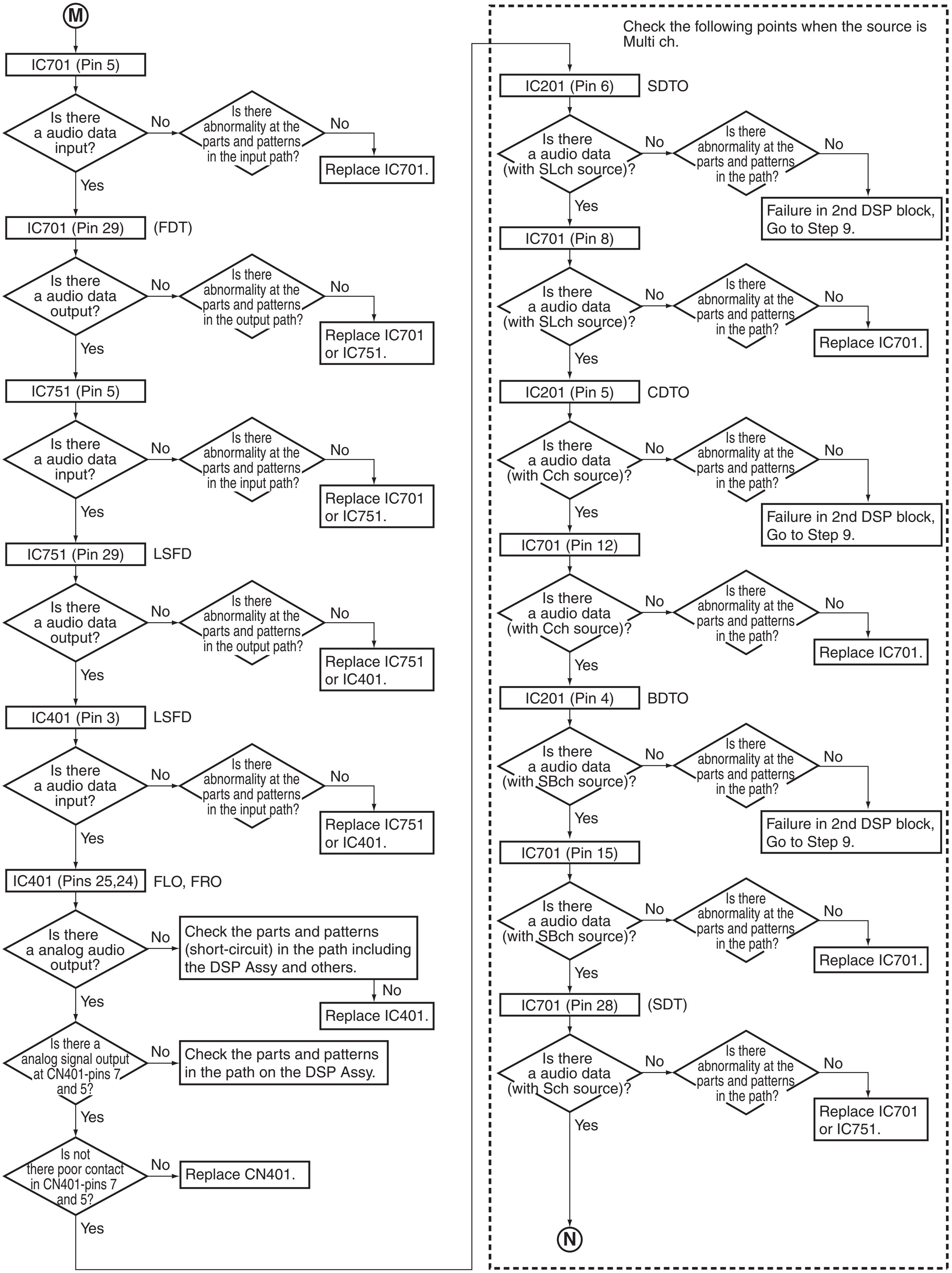
IC291 (Pin 4)
MCLK
Is there a master clock (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC291.
Yes
IC291 (Pin 6)
MCK2
Is there a master clock (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC291 or IC201.
Yes
IC201 (Pin 73)
Is there a master clock (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
IC101 J14 (R117)
LCK2
Is there a LR clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 1st DSP block, Go to Step 8.
Yes
IC201 (Pins 60,78)
Is there a LR clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
IC101 H14 (R115)
BCK2
Is there a bit clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 1st DSP block, Go to Step 8.
Yes
IC201 (Pins 62,76)
Is there a bit clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
IC101 P10 (R126(4))
DT0O
Is there a audio data ?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 1st DSP block, Go to Step 8.
Yes
IC201 (Pin 1)
Is there a audio data ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
K

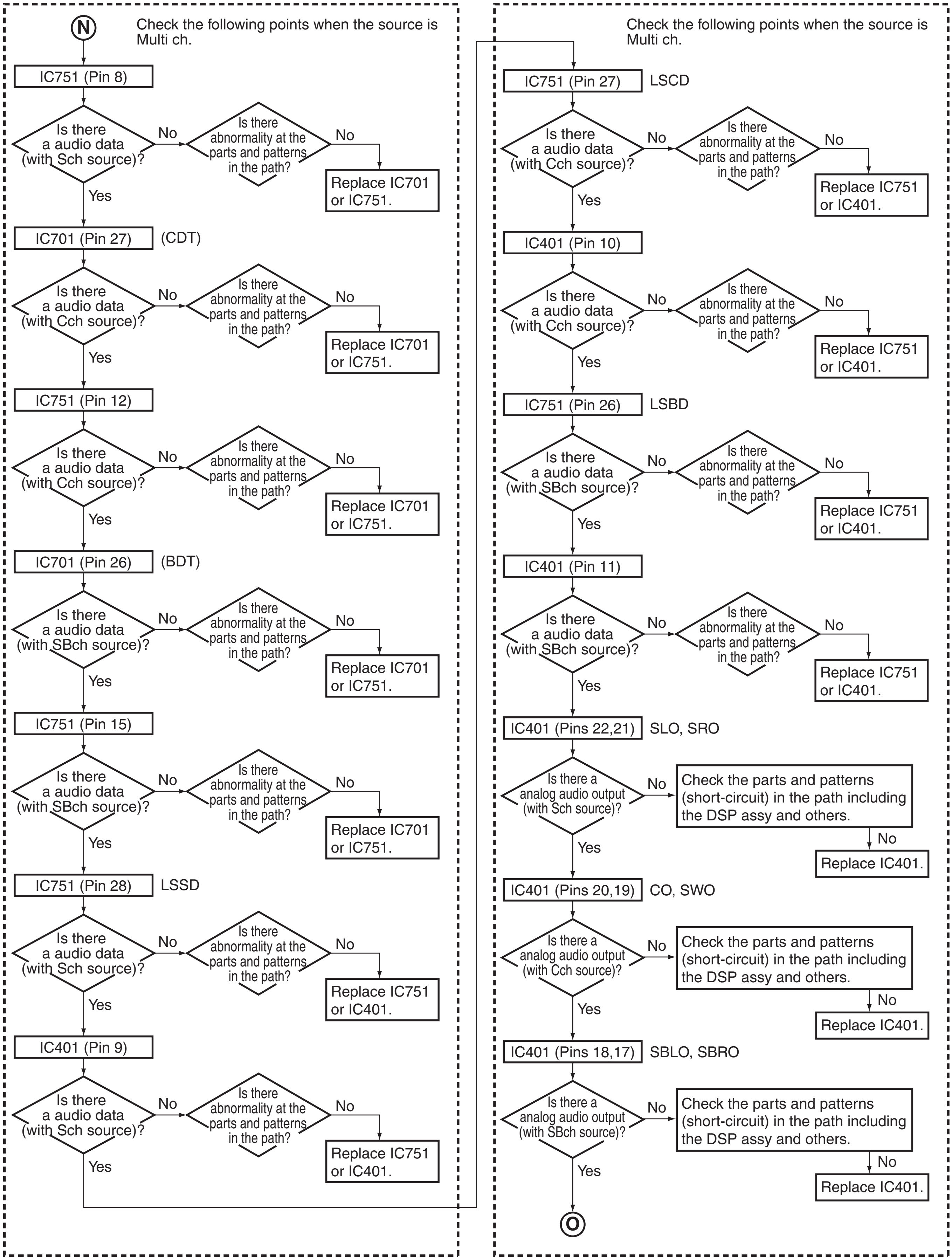

K
Check the following points when the source is Muiti ch.
IC101 P11 (R126(3)) DT1O
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 1st DSP block, Go to Step 8.
Yes
IC201 (Pin 80)
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
IC101 P12 (R126(2)) DT2O
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 1st DSP block, Go to Step 8.
Yes
IC201 (Pin 58)
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
IC101 P13 (R126(1)) DT3O
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 1st DSP block, Go to Step 8.
Yes
IC201 (Pin 59)
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
To Step 7

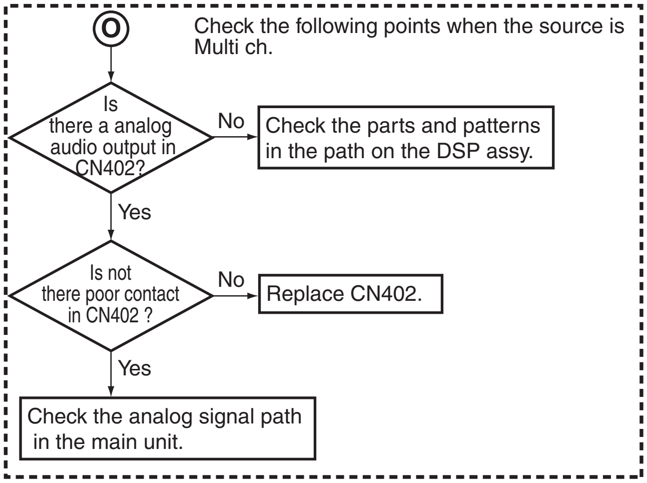
Step 7: Audio Clock (from 2nd DSP to the DAC output)


IC701 (Pin 21) DARST
Is the voltage of reset input 3.3 V?
No
Check the path to the microcomputer.
No
Replace IC701 or IC751.
Yes
IC751 (Pin 21)
Is the voltage of reset input 3.3 V?
No
Check the path to the microcomputer.
No
Replace IC701 or IC751.
Yes
IC701 (Pins 23,24) LSSDA, LSSCL
Is the control signal visible when the delay amount is changed?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
IC751 (Pins 23,24)
Is the control signal visible when the delay amount is changed?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
IC291 (Pin 13) MCLK
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC291.
Yes
IC401 (Pin 1)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC291 or IC401.
Yes
IC291 (Pin 11) MCK3
Is there a master clock output (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC291, IC701 or IC751.
Yes
IC701 (Pin 2)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC291, IC701 or IC751.
Yes
L

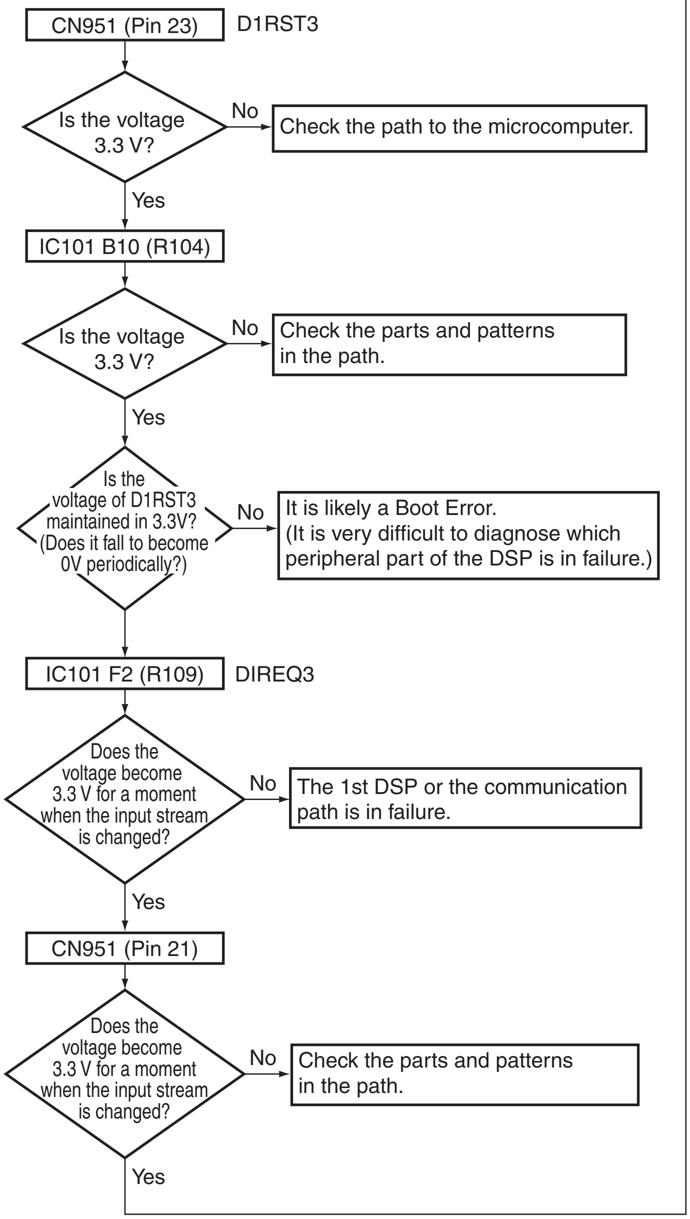

L
IC751 (Pin 2)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC291, IC701 or IC751.
Yes
IC201 (Pin 79)
LCKO
Is there a LR clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Failure in 2nd DSP block. Go to Step 9.
Yes
IC701 (Pin 3)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC701.
Yes
IC701 (Pin 31)
(LRCK)
Is there a LR clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 3)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 31)
LSLK
Is there a LR clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC751 or IC401.
Yes
IC401 (Pin 4)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC751 or IC401.
Yes
IC201 (Pin 77)
BCKO
Is there a bit clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Failure in 2nd DSP block. Go to Step 9.
Yes
IC701 (Pin 4)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC701.
Yes
IC701 (Pin 30)
(BCK)
Is there a bit clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 4)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 30)
LSBK
Is there a bit clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC751 or IC401.
Yes
IC401 (Pin 2)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC751 or IC401.
Yes
IC201 (Pin 7)
FDTO
Is there a audio data output?
No
Is there abnormality at the parts and patterns in the output path?
No
Failure in 2nd DSP block. Go to Step 9.
Yes
M

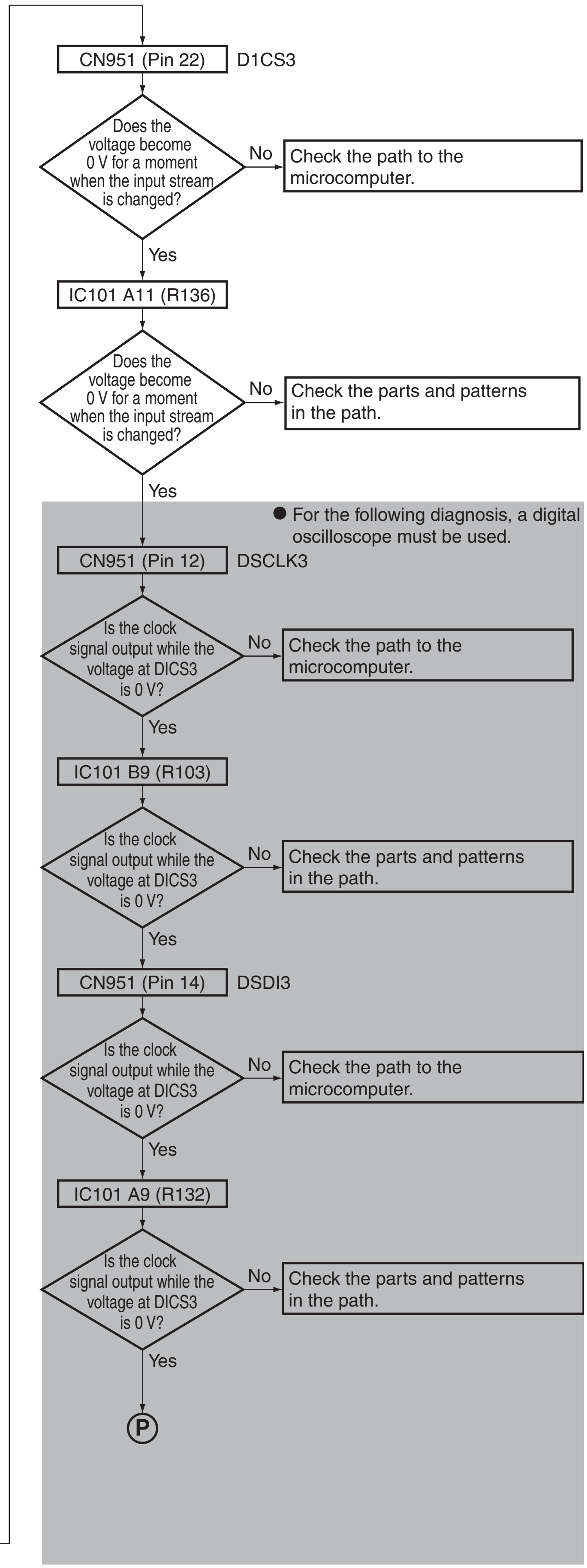

M
IC701 (Pin 5)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC701.
Yes
IC701 (Pin 29)
(FDT)
Is there a audio data output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 5)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 29)
LSFD
Is there a audio data output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC751 or IC401.
Yes
IC401 (Pin 3)
LSFD
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC751 or IC401.
Yes
IC401 (Pins 25,24)
FLO, FRO
Is there a analog audio output?
No
Check the parts and patterns (short-circuit) in the path including the DSP Assy and others.
No
Replace IC401.
Yes
Is there a analog signal output at CN401-pins 7 and 5?
No
Check the parts and patterns in the path on the DSP Assy.
Yes
Is not there poor contact in CN401-pins 7 and 5?
No
Replace CN401.
Yes
Check the following points when the source is Multi ch.
IC201 (Pin 6)
SDTO
Is there a audio data (with SLch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 2nd DSP block, Go to Step 9.
Yes
IC701 (Pin 8)
Is there a audio data (with SLch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701.
Yes
IC201 (Pin 5)
CDTO
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 2nd DSP block, Go to Step 9.
Yes
IC701 (Pin 12)
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701.
Yes
IC201 (Pin 4)
BDTO
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 2nd DSP block, Go to Step 9.
Yes
IC701 (Pin 15)
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701.
Yes
IC701 (Pin 28)
(SDT)
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
N

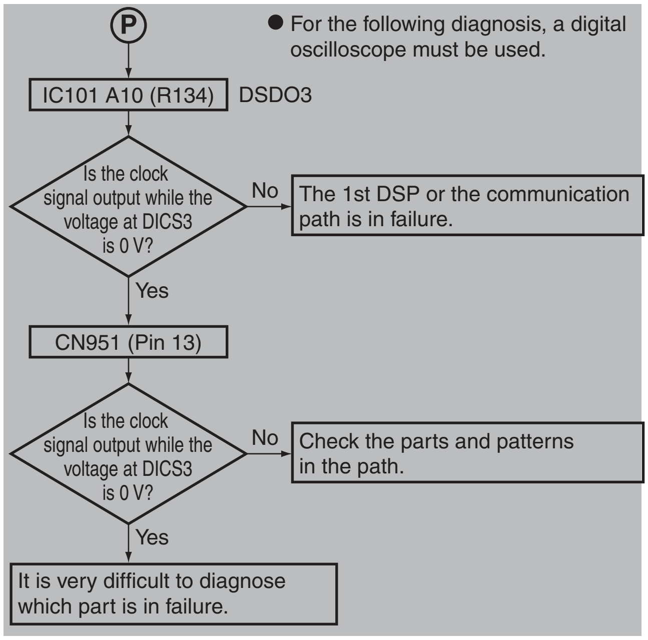

N
Check the following points when the source is Multi ch.
IC751 (Pin 8)
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
IC701 (Pin 27)
(CDT)
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 12)
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
IC701 (Pin 26)
(BDT)
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 15)
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 28)
LSSD
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC751 or IC401.
Yes
IC401 (Pin 9)
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC751 or IC401.
Yes
Check the following points when the source is Multi ch.
IC751 (Pin 27)
LSCD
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC751 or IC401.
Yes
IC401 (Pin 10)
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC751 or IC401.
Yes
IC751 (Pin 26)
LSBD
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC751 or IC401.
Yes
IC401 (Pin 11)
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC751 or IC401.
Yes
IC401 (Pins 22,21)
SLO, SRO
Is there a analog audio output (with Sch source)?
No
Check the parts and patterns (short-circuit) in the path including the DSP assy and others.
No
Replace IC401.
Yes
IC401 (Pins 20,19)
CO, SWO
Is there a analog audio output (with Cch source)?
No
Check the parts and patterns (short-circuit) in the path including the DSP assy and others.
No
Replace IC401.
Yes
IC401 (Pins 18,17)
SBLO, SBRO
Is there a analog audio output (with SBch source)?
No
Check the parts and patterns (short-circuit) in the path including the DSP assy and others.
No
Replace IC401.
Yes
O


O
Check the following points when the source is Multi ch.
Is there a analog audio output in CN402?
No
Check the parts and patterns in the path on the DSP assy.
Yes
Is not there poor contact in CN402 ?
No
Replace CN402.
Yes
Check the analog signal path in the main unit.

Step 8: 1st DSP

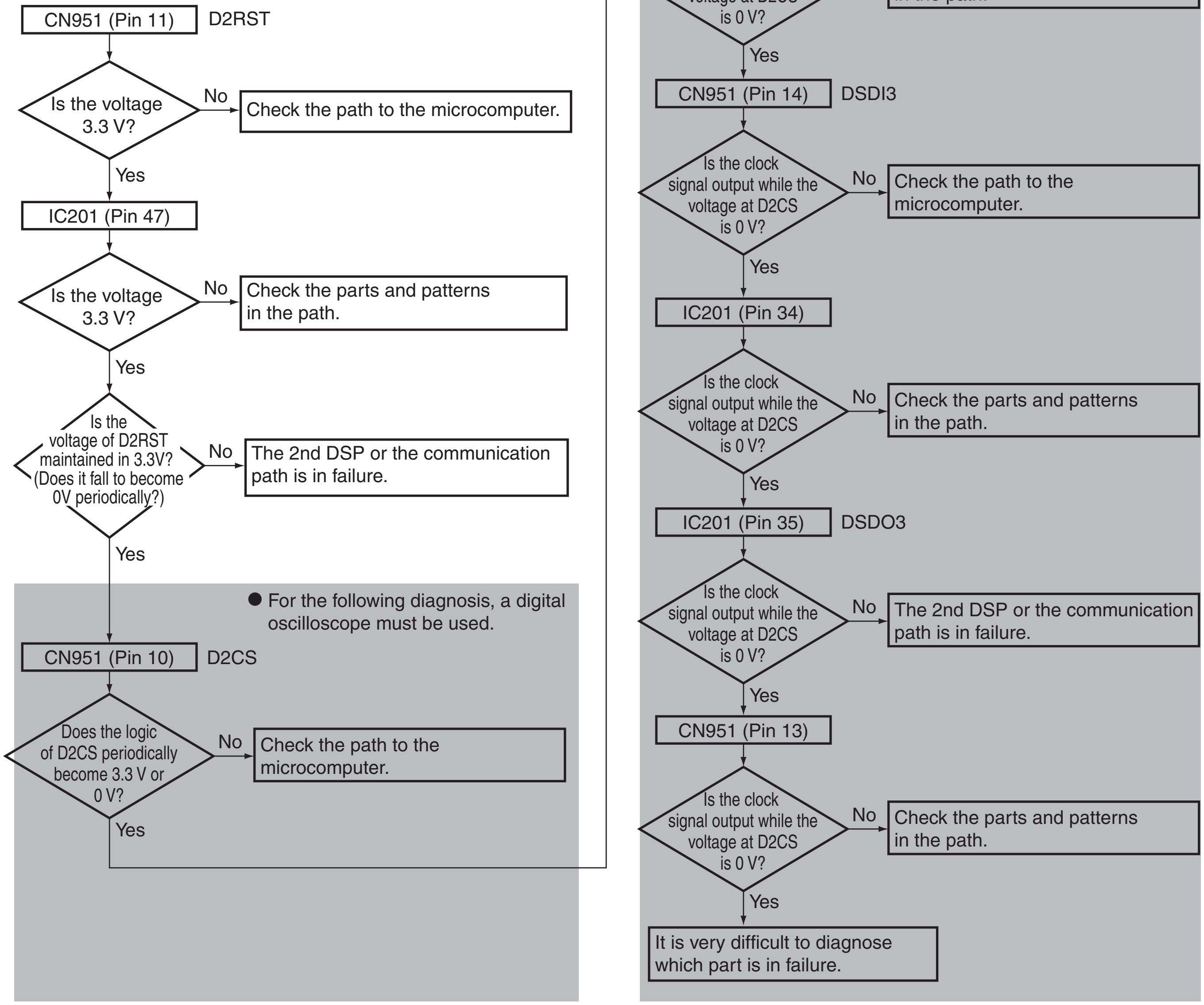

CN951 (Pin 23)
D1RST3
Is the voltage 3.3 V?
No
Check the path to the microcomputer.
Yes
IC101 B10 (R104)
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
Is the voltage of D1RST3 maintained in 3.3V? (Does it fall to become 0V periodically?)
No
It is likely a Boot Error. (It is very difficult to diagnose which peripheral part of the DSP is in failure.)
IC101 F2 (R109)
DIREQ3
Does the voltage become 3.3 V for a moment when the input stream is changed?
No
The 1st DSP or the communication path is in failure.
Yes
CN951 (Pin 21)
Does the voltage become 3.3 V for a moment when the input stream is changed?
No
Check the parts and patterns in the path.
Yes


CN951 (Pin 22)
D1CS3
Does the voltage become 0 V for a moment when the input stream is changed?
No
Check the path to the microcomputer.
Yes
IC101 A11 (R136)
Does the voltage become 0 V for a moment when the input stream is changed?
No
Check the parts and patterns in the path.
Yes
● For the following diagnosis, a digital oscilloscope must be used.
CN951 (Pin 12)
DSCLK3
Is the clock signal output while the voltage at DICS3 is 0 V?
No
Check the path to the microcomputer.
Yes
IC101 B9 (R103)
Is the clock signal output while the voltage at DICS3 is 0 V?
No
Check the parts and patterns in the path.
Yes
CN951 (Pin 14)
DSDI3
Is the clock signal output while the voltage at DICS3 is 0 V?
No
Check the path to the microcomputer.
Yes
IC101 A9 (R132)
Is the clock signal output while the voltage at DICS3 is 0 V?
No
Check the parts and patterns in the path.
Yes
P


● For the following diagnosis, a digital oscilloscope must be used.

P
IC101 A10 (R134)
DSDO3
Is the clock signal output while the voltage at DICS3 is 0 V?
No
The 1st DSP or the communication path is in failure.
Yes
CN951 (Pin 13)
Is the clock signal output while the voltage at DICS3 is 0 V?
No
Check the parts and patterns in the path.
Yes
It is very difficult to diagnose which part is in failure.

Step 9: 2nd DSP


● For the following diagnosis, a digital oscilloscope must be used.

● For the following diagnosis, a digital oscilloscope must be used.

CN951 (Pin 11)
D2RST
Is the voltage 3.3 V?
No
Check the path to the microcomputer.
Yes
IC201 (Pin 47)
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
Is the voltage of D2RST maintained in 3.3V? (Does it fall to become 0V periodically?)
No
The 2nd DSP or the communication path is in failure.
Yes
CN951 (Pin 10)
D2CS
Does the logic of D2CS periodically become 3.3 V or 0 V?
No
Check the path to the microcomputer.
Yes
IC201 (Pin 37)
Does the logic of D2CS periodically become 3.3 V or 0 V?
No
Check the parts and patterns in the path.
Yes
CN951 (Pin 12)
DSCLK3
Is the clock signal output while the voltage at D2CS is 0 V?
No
Check the path to the microcomputer.
Yes
IC201 (Pin 36)
Is the clock signal output while the voltage at D2CS is 0 V?
No
Check the parts and patterns in the path.
Yes
CN951 (Pin 14)
DSDI3
Is the clock signal output while the voltage at D2CS is 0 V?
No
Check the path to the microcomputer.
Yes
IC201 (Pin 34)
Is the clock signal output while the voltage at D2CS is 0 V?
No
Check the parts and patterns in the path.
Yes
IC201 (Pin 35)
DSDO3
Is the clock signal output while the voltage at D2CS is 0 V?
No
The 2nd DSP or the communication path is in failure.
Yes
CN951 (Pin 13)
Is the clock signal output while the voltage at D2CS is 0 V?
No
Check the parts and patterns in the path.
Yes
It is very difficult to diagnose which part is in failure.

■ DSP Block Diagram

• Signal Block

- ▨ : For AWX8813 only (for North American specifications)
- ⬚ : Stand-by parts, stand-by path
- ( ): Channel allocation for SACD

→ : I2S MCLK

➔ : I2S DATA (2ch) *F, S, C and B before pin numbers mean FL/FRch, SL/SRch, C/SWch and SBL/SBRch, respectively.

- - ➔ : I2S DATA (Compressed (includes dts HD High Resolution Audio, dts HD LBR, and Dolby Digital Plus), (48K for HDMI)

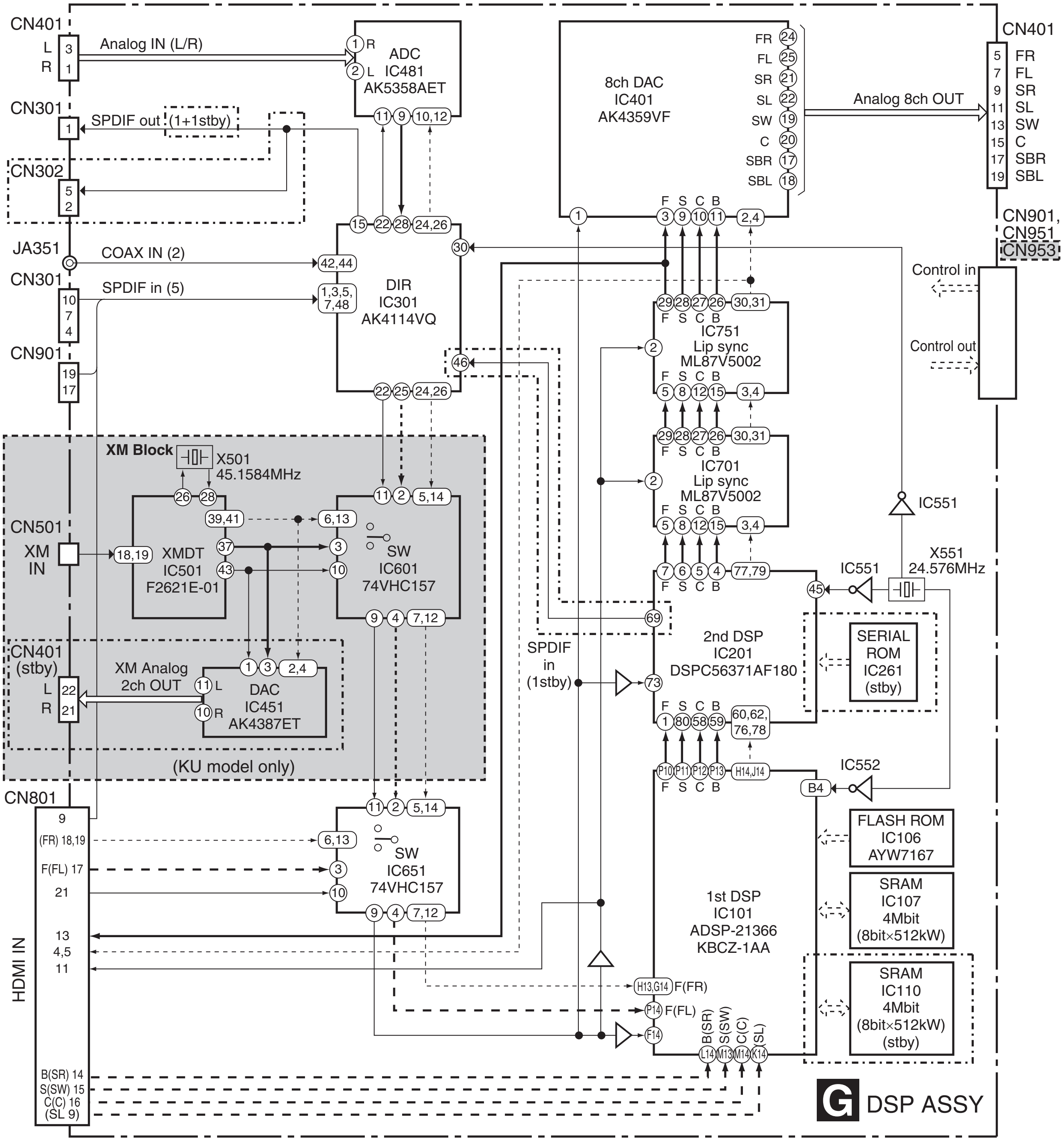
- - → : I2S LRCK, MBCK

- - ⇨ : Control, memory bus line, etc

⇨ : Analog audio signal *Alphabets before pin numbers mean the channel names.

→ : SPDIF, Operation Clock, etc

- · ➔ : I2S or DSD DATA (Signal from HDMI. When it is "dts HD Master Audio", "Dolby True HD", "SACD", "LPCM Multi" or "PCM or LPCM at or above 88.2kHz")



CN401
L 3
R 1
Analog IN (L/R)
CN301
1
SPDIF out (1+1stby)
CN302
5
2
JA351
COAX IN (2)
CN301
SPDIF in (5)
10
7
4
CN901
19
17
ADC
IC481
AK5358AET
1 R
2 L
11 9 10,12
15 22 28 24,26
30
42,44
1,3,5,7,48
DIR
IC301
AK4114VQ
46
22 25 24,26
8ch DAC
IC401
AK4359VF
FR 24
FL 25
SR 21
SL 22
SW 19
C 20
SBR 17
SBL 18
1
F S C B
3 9 10 11 2,4
Analog 8ch OUT
CN401
5 FR
7 FL
9 SR
11 SL
13 SW
15 C
17 SBR
19 SBL
CN901,
CN951
CN953
Control in
Control out
29 28 27 26 30,31
F S C B
2
IC751
Lip sync
ML87V5002
F S C B
5 8 12 15 3,4
29 28 27 26 30,31
F S C B
2
IC701
Lip sync
ML87V5002
F S C B
5 8 12 15 3,4
IC551
X551
24.576MHz
IC551
45
7 6 5 4 77,79
F S C B
69
2nd DSP
IC201
DSPC56371AF180
SPDIF
in
(1stby)
73
SERIAL
ROM
IC261
(stby)
F S C B
1 80 58 59 60,62,76,78
IC552
P10 P11 P12 P13 H14,J14
F S C B
B4
FLASH ROM
IC106
AYW7167
SRAM
IC107
4Mbit
(8bit×512kW)
SRAM
IC110
4Mbit
(8bit×512kW)
(stby)
1st DSP
IC101
ADSP-21366
KBCZ-1AA
H13,G14 F(FR)
P14 F(FL)
F14
B(SR) S(SW) C(C) (SL)
L14 M13 M14 K14
XM Block
X501
45.1584MHz
26 28
39,41
6,13
37
43
3
10
11 2 5,14
CN501
XM
IN
18,19
XMDT
IC501
F2621E-01
SW
IC601
74VHC157
9 4 7,12
CN401
(stby)
XM Analog
2ch OUT
L 22
R 21
11 L
10 R
1 3 2,4
DAC
IC451
AK4387ET
(KU model only)
CN801
9
(FR) 18,19
F(FL) 17
21
13
4,5
11
HDMI IN
B(SR) 14
S(SW) 15
C(C) 16
(SL 9)
6,13
3
10
11 2 5,14
SW
IC651
74VHC157
9 4 7,12
G DSP ASSY

(Supplement) Differences in channel allocation for SACD signal and other signals

CN801

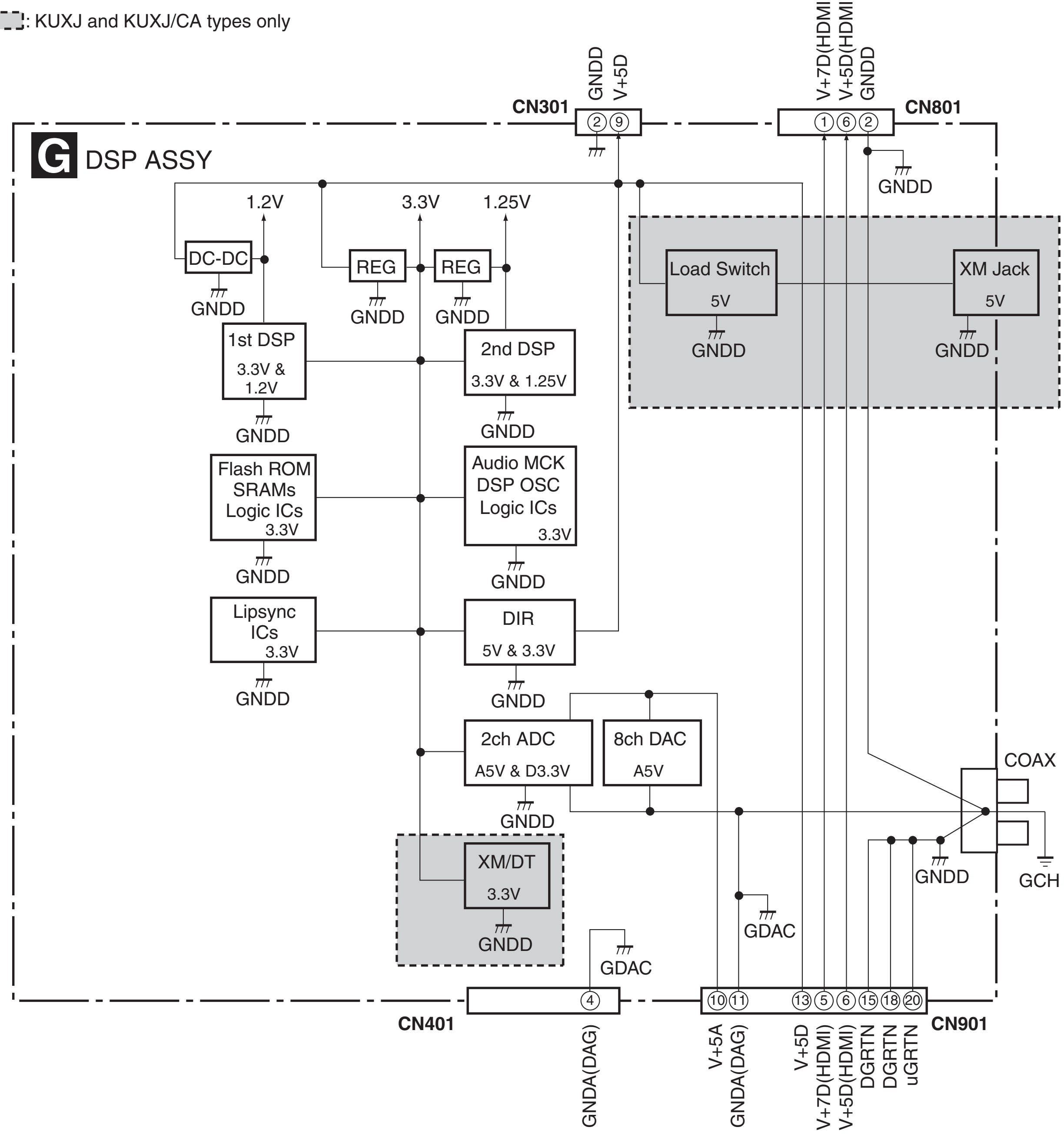
Pin No.	SACD signal	Other signals
9	Data(SL)	-
14	Data(SR)	Data(SBL,SBR)
15	Data(SW)	Data(SL,SR)
16	Data(C)	Data(C,SW)
17	Data(FL)	Data(FL,FR)
18	Data(FR)	LR clock

IC101

Pin No.	SACD signal	Other signals
H13	Data(FR)	LR clock
K14	Data(SL)	-
L14	Data(SR)	Data(SBL,SBR)
M13	Data(SW)	Data(SL,SR)
M14	Data(C)	Data(C,SW)
P14	Data(FL)	Data(FL,FR)

• Power Block and GND Map

• ▨ : KUXJ and KUXJ/CA types only


GNDD
V+5D
CN301
②⑨
V+7D(HDMI)
V+5D(HDMI)
GNDD
①⑥②
CN801
G DSP ASSY
GNDD
1.2V
3.3V
1.25V
DC-DC
REG
REG
GNDD
GNDD
GNDD
Load Switch
5V
XM Jack
5V
GNDD
GNDD
1st DSP
3.3V &
1.2V
2nd DSP
3.3V & 1.25V
GNDD
GNDD
Flash ROM
SRAMs
Logic ICs
3.3V
Audio MCK
DSP OSC
Logic ICs
3.3V
GNDD
GNDD
Lipsync
ICs
3.3V
DIR
5V & 3.3V
GNDD
GNDD
2ch ADC
A5V & D3.3V
8ch DAC
A5V
COAX
GNDD
GNDD
GCH
XM/DT
3.3V
GNDD
GDAC
GDAC
CN401
④
⑩⑪
⑬⑤⑥⑮⑱⑳
CN901
GNDA(DAG)
V+5A
GNDA(DAG)
V+5D
V+7D(HDMI)
V+5D(HDMI)
DGRTN
DGRTN
uGRTN

• Conditions for selecting SPDIF or I2S output from HDMI Assy.

	pcm	fs(kHz)	Layout	SPDIF	I2S(3 lines)
	Compression DVD-V	48	2ch	◎	×
	Compression *.WAV	44	2ch	○	×
		48	2ch	○	×
	dts-CD	44	2ch	○	×
	PCM	44	2ch	○	×
Indistinguishable		48	2ch	○	×
	DVD-V	96	2ch		○
	LPCM	44	2ch	○	
			Multi	×	○
		48	2ch	○	
			Multi	×	○
		88	2ch		○
			Multi	×	○
	DVD-A	96	2ch		○
			Multi	×	○
		176	2ch	×	○
			Multi	-	-
		192	2ch	×	○
			Multi	-	-

SACD	2ch	×	○	(DSD)
	Multi	×	○	(DSD)

dts HD Master Audio	×	○
dts HD High Resolution Audio	○	×
dts HD LBR	○	×
Dolby TrueHD	×	○
Dolby Digital Plus	○	×

5.1.2 HDMI TROUBLESHOOTING

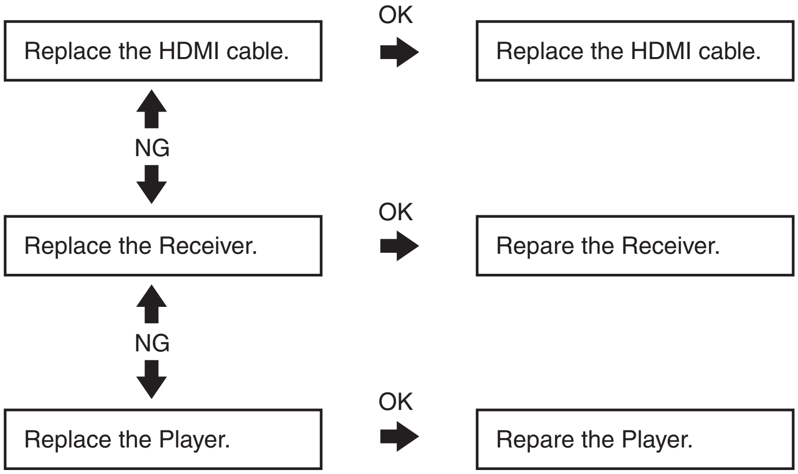
■ HDMI Simple Diagnosis

Please refer to the one point trouble shooting first before checking the flow chart on the next page.

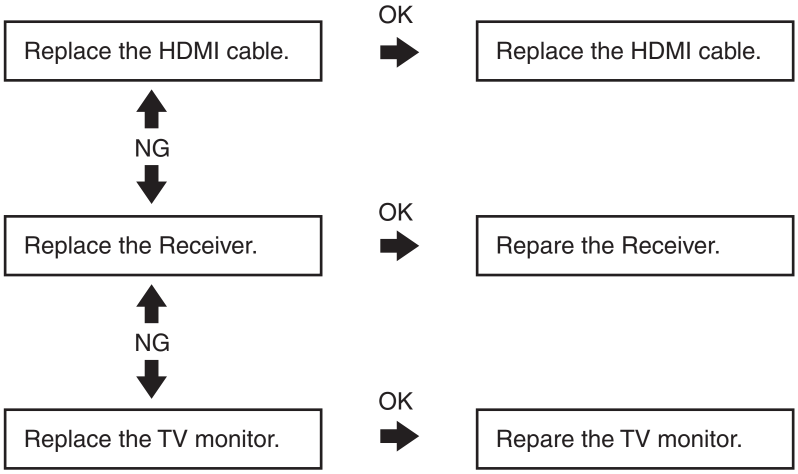
HDMI

Symptom	Remedy
The HDMI indicator blinks continuously.	Check all the points below.
No picture or sound.	• This receiver is HDCP-compatible. Check that the components you are connecting are also HDCP-compatible. If they are not, please connect them using the component, S-video or composite video jacks. • Depending on the connected source component, it's possible that it will not work with this receiver (even if it is HDCP-compatible). In this case, connect using the component, S-video or composite video jacks between source and receiver. • If the problem still persists when connecting your HDMI component directly to your monitor, please consult the component or monitor manual or contact the manufacturer for support.
No picture.	• To see the on-screen display, you must also connect the receiver and TV with a composite, component, or S-video cable. • Depending in the output settings of the source component, it may be outputting a video format that can't be displayed. Change the output settings of the source, or connect using the component, S-video or composite jacks.
No sound, or sound suddenly ceases.	• Check that the HDMI AV setting is set to **AMP/THROUGH**. • If the component is a DVI device, use a separate connection for the audio. • Check the audio output settings of the source component.
Noisy or distorted picture.	• If the problem still persists when connecting your HDMI component directly to your monitor, please consult the component or monitor manual or contact the manufacturer for support.

1. Causes for noncompletion of HDMI authentication between the source equipment and this unit (the HDMI indicator is unlit or flashes)


Replace the HDMI cable.
OK
Replace the HDMI cable.
NG
Replace the Receiver.
OK
Repare the Receiver.
NG
Replace the Player.
OK
Repare the Player.

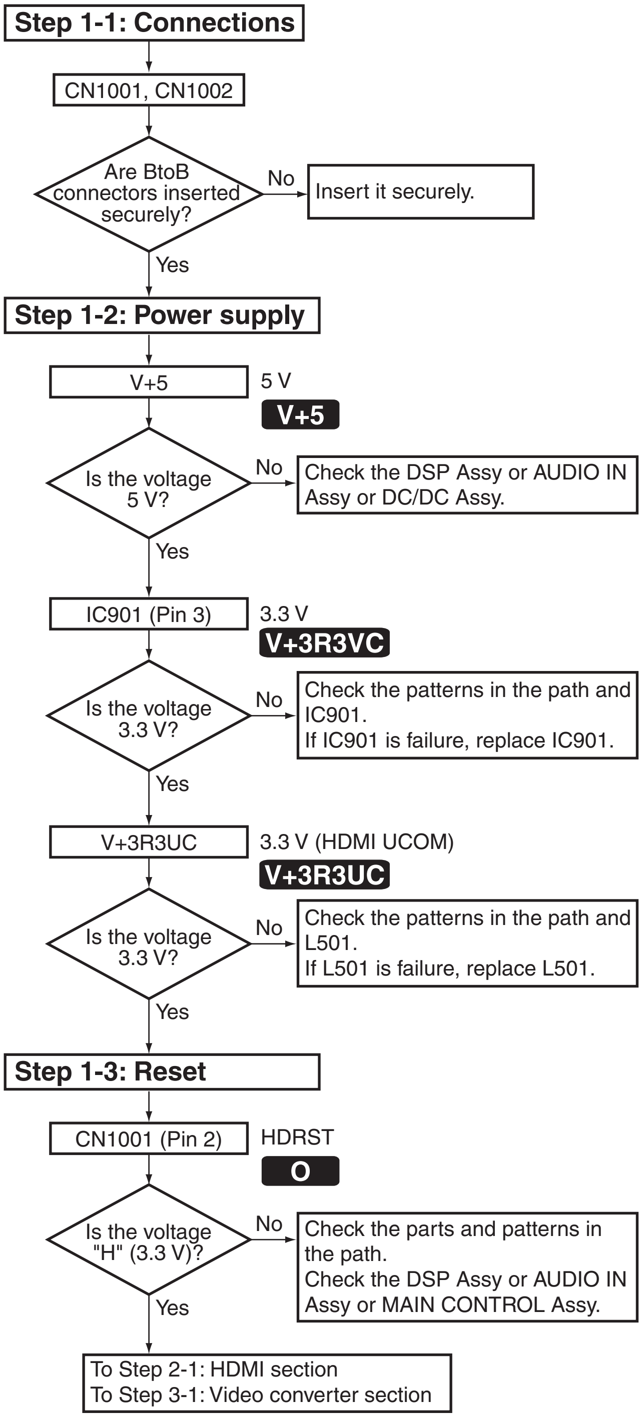
2. Causes for noncompletion of HDMI authentication between the monitor and this unit (no display or sound from the monitor)


Replace the HDMI cable.
OK
Replace the HDMI cable.
NG
Replace the Receiver.
OK
Repare the Receiver.
NG
Replace the TV monitor.
OK
Repare the TV monitor.

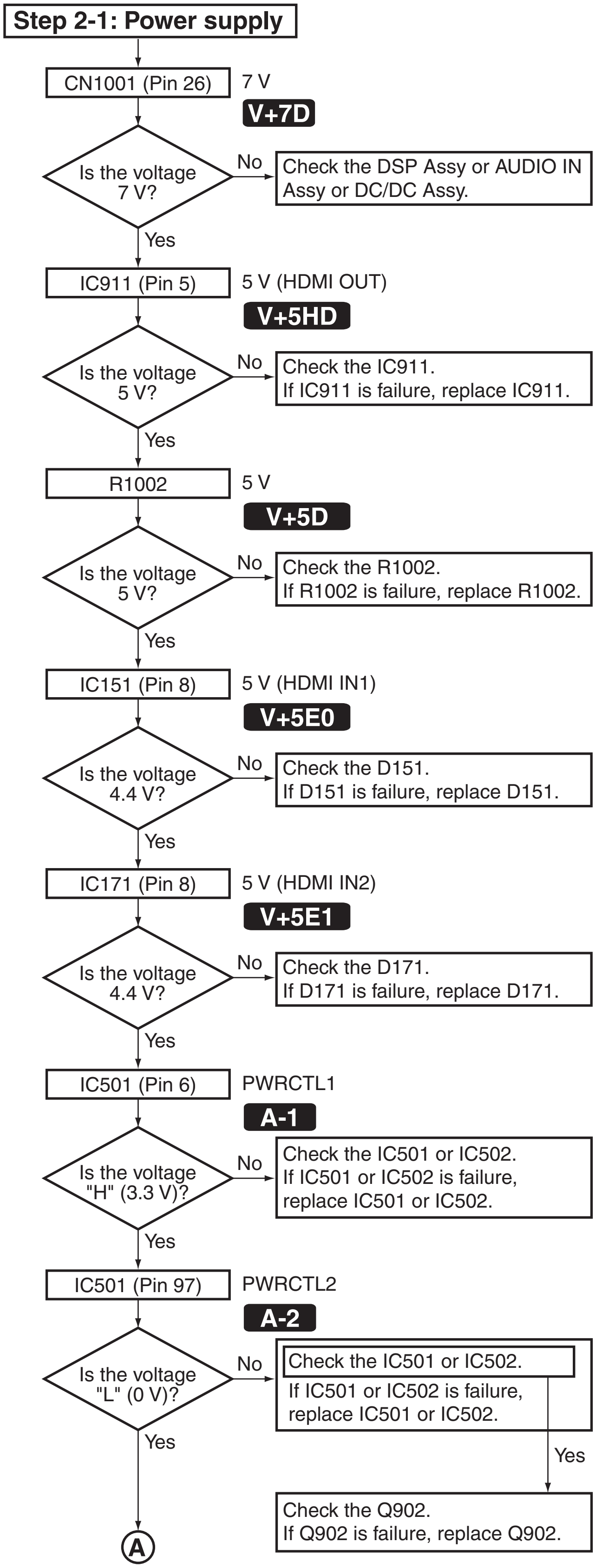
HDMI Troubleshooting

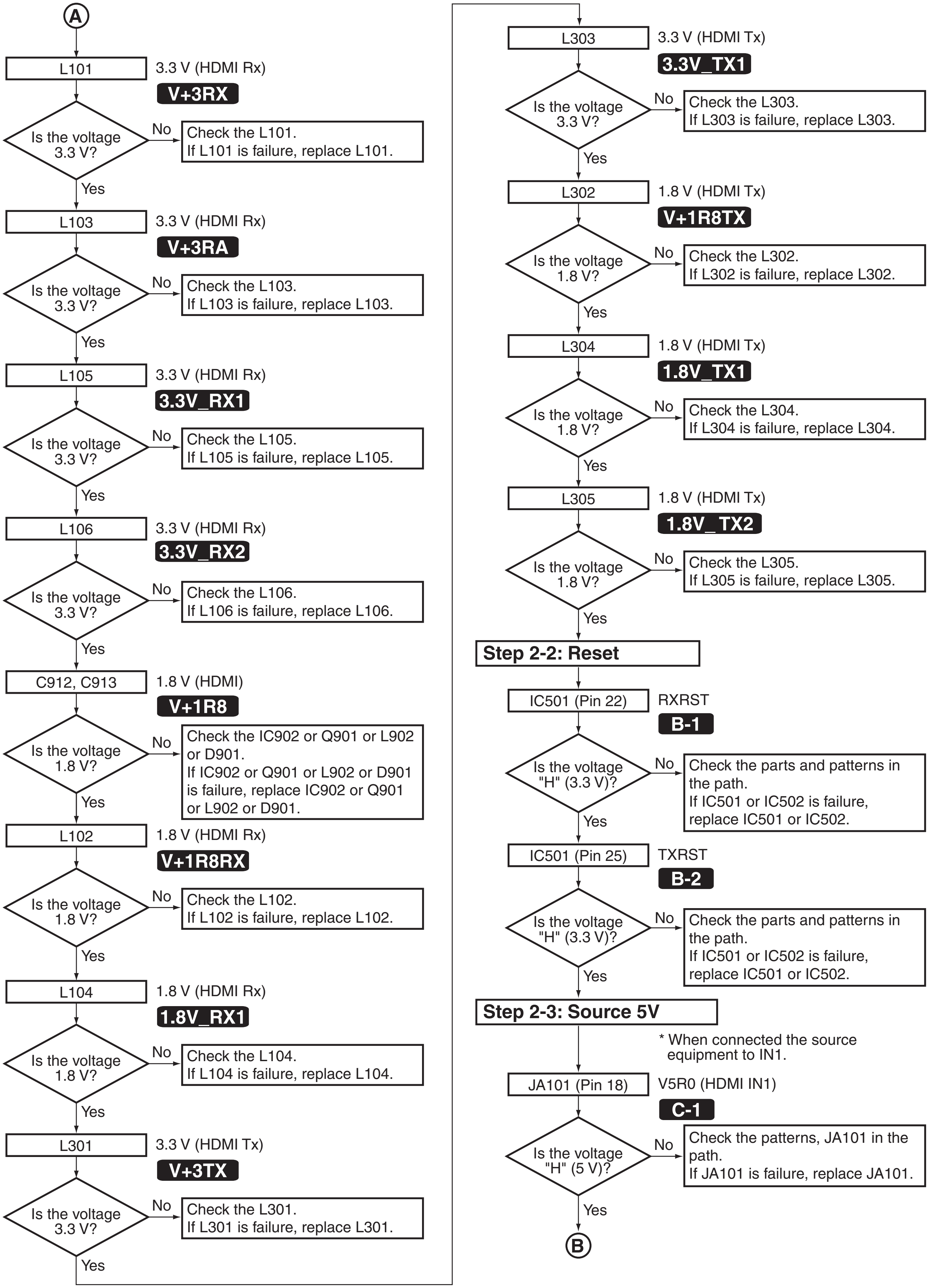
- The parts marked like **V+5** in the following chart are located in "HDMI &DVC Assy Check Points".

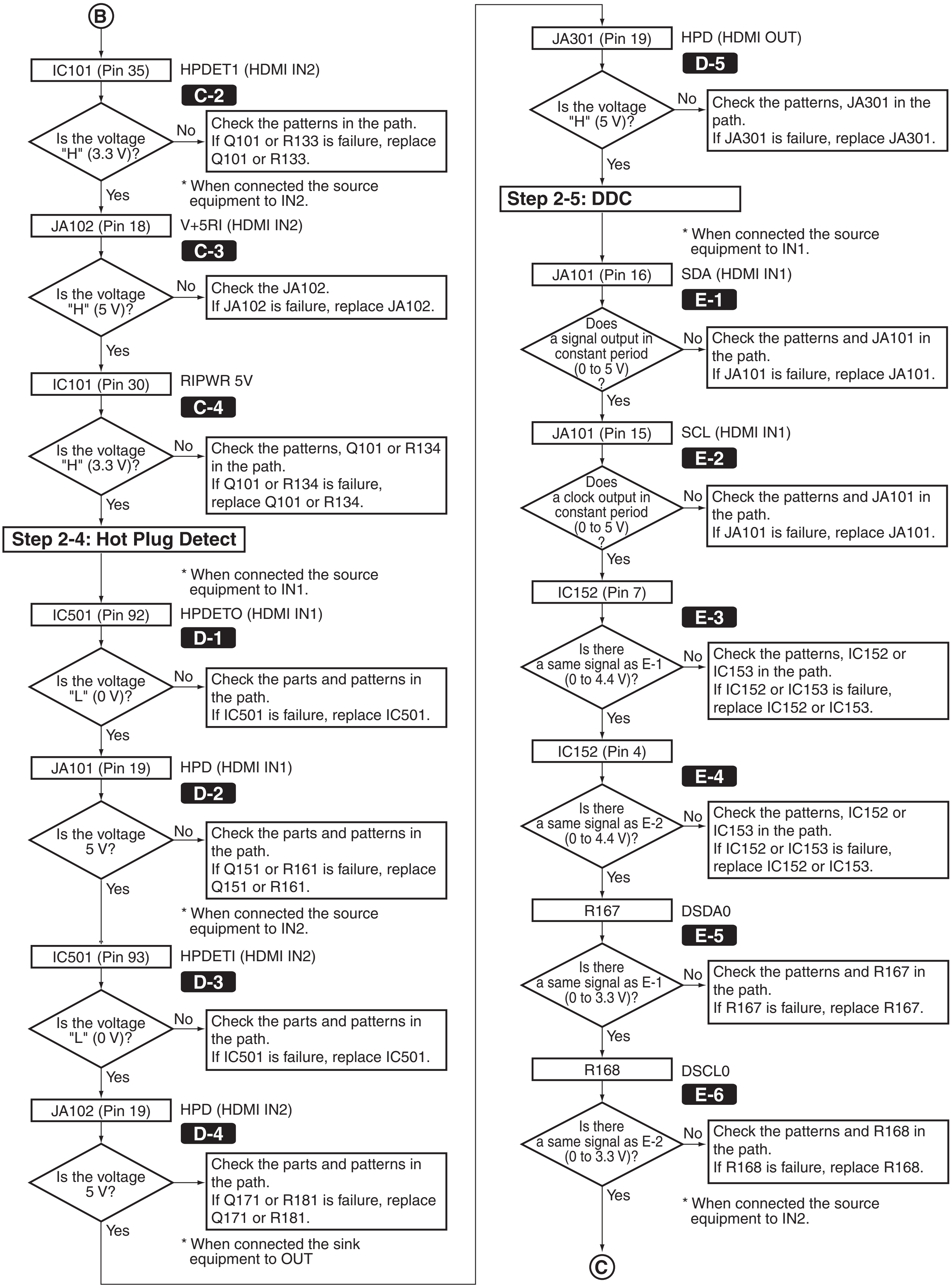
Common section

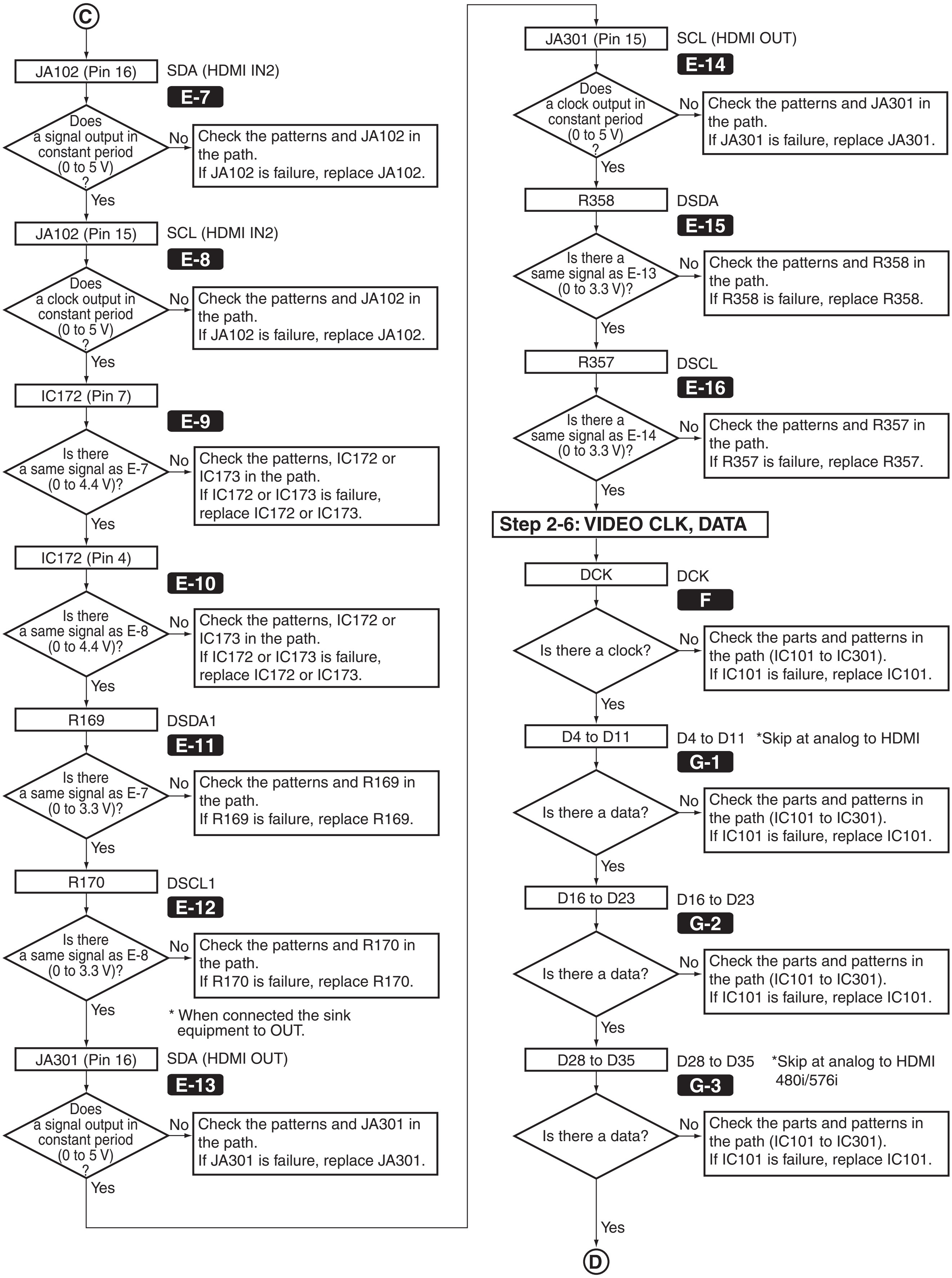

Step 1-1: Connections
CN1001, CN1002
Are BtoB connectors inserted securely?
No
Insert it securely.
Yes
Step 1-2: Power supply
V+5
5 V
V+5
Is the voltage 5 V?
No
Check the DSP Assy or AUDIO IN Assy or DC/DC Assy.
Yes
IC901 (Pin 3)
3.3 V
V+3R3VC
Is the voltage 3.3 V?
No
Check the patterns in the path and IC901.
If IC901 is failure, replace IC901.
Yes
V+3R3UC
3.3 V (HDMI UCOM)
V+3R3UC
Is the voltage 3.3 V?
No
Check the patterns in the path and L501.
If L501 is failure, replace L501.
Yes
Step 1-3: Reset
CN1001 (Pin 2)
HDRST
O
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
Check the DSP Assy or AUDIO IN Assy or MAIN CONTROL Assy.
Yes
To Step 2-1: HDMI section
To Step 3-1: Video converter section

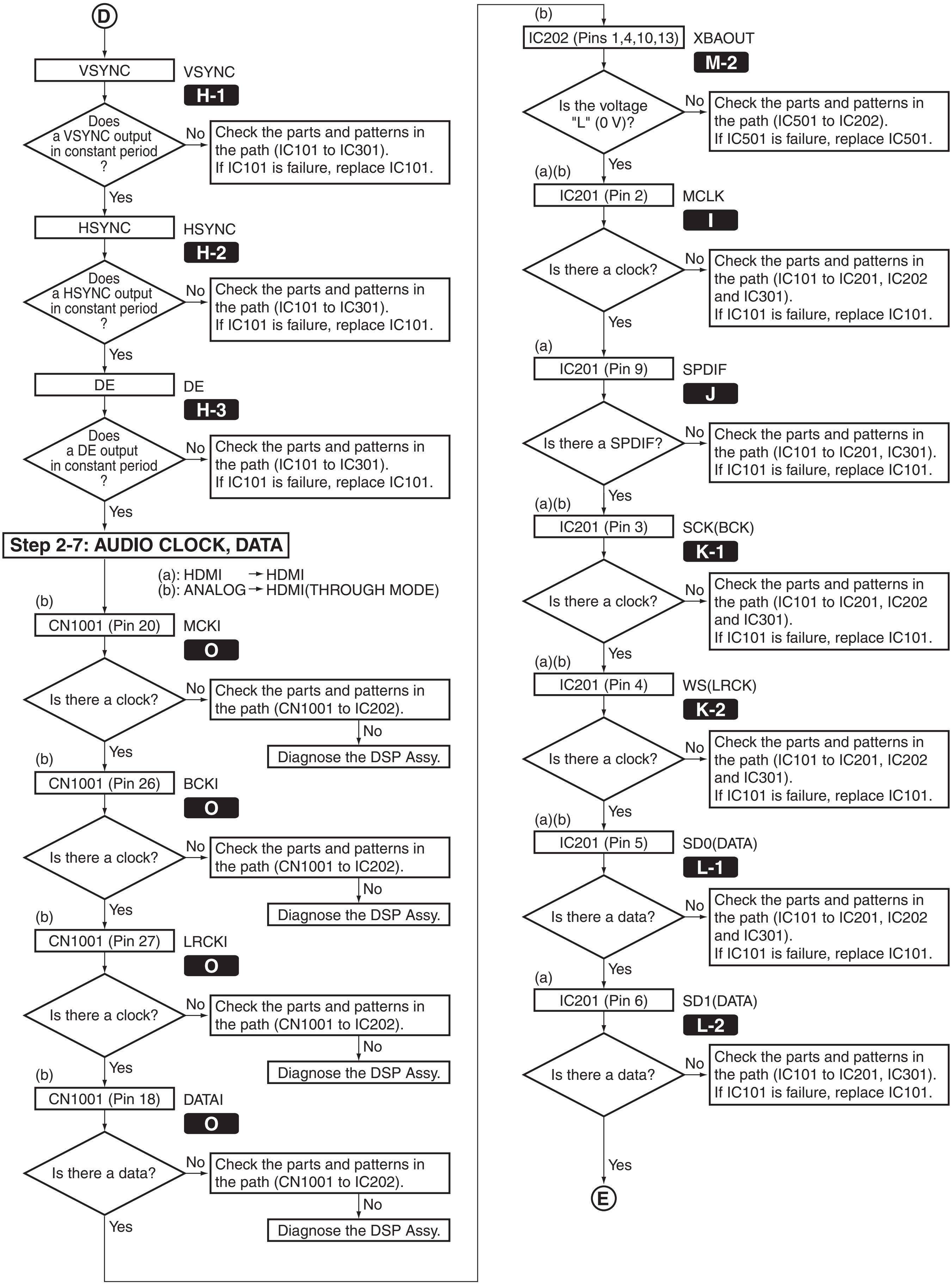
HDMI section

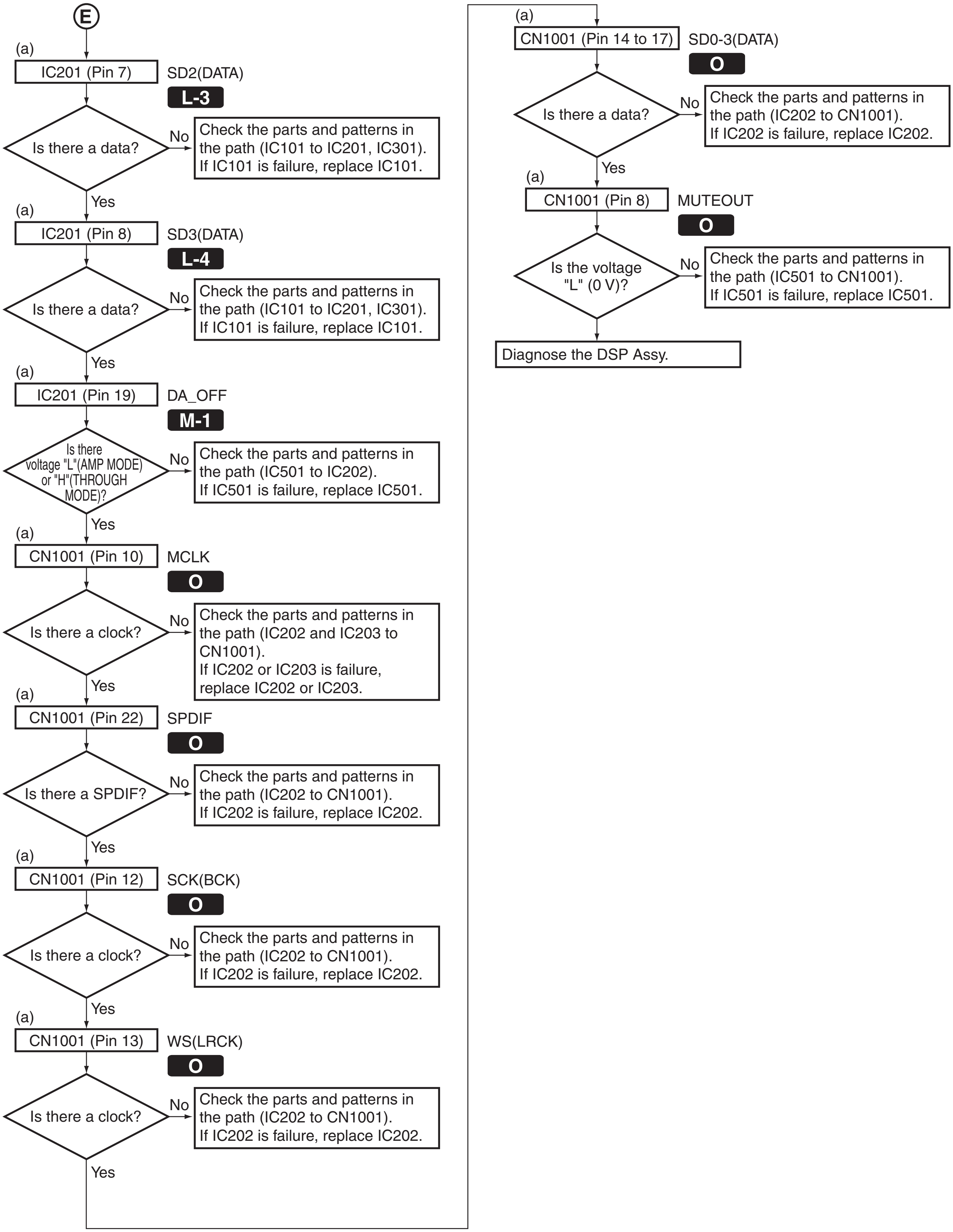

Step 2-1: Power supply
CN1001 (Pin 26)
7 V
V+7D
Is the voltage 7 V?
No
Check the DSP Assy or AUDIO IN Assy or DC/DC Assy.
Yes
IC911 (Pin 5)
5 V (HDMI OUT)
V+5HD
Is the voltage 5 V?
No
Check the IC911.
If IC911 is failure, replace IC911.
Yes
R1002
5 V
V+5D
Is the voltage 5 V?
No
Check the R1002.
If R1002 is failure, replace R1002.
Yes
IC151 (Pin 8)
5 V (HDMI IN1)
V+5E0
Is the voltage 4.4 V?
No
Check the D151.
If D151 is failure, replace D151.
Yes
IC171 (Pin 8)
5 V (HDMI IN2)
V+5E1
Is the voltage 4.4 V?
No
Check the D171.
If D171 is failure, replace D171.
Yes
IC501 (Pin 6)
PWRCTL1
A-1
Is the voltage "H" (3.3 V)?
No
Check the IC501 or IC502.
If IC501 or IC502 is failure, replace IC501 or IC502.
Yes
IC501 (Pin 97)
PWRCTL2
A-2
Is the voltage "L" (0 V)?
No
Check the IC501 or IC502.
If IC501 or IC502 is failure, replace IC501 or IC502.
Yes
Yes
Check the Q902.
If Q902 is failure, replace Q902.
A


A
L101
3.3 V (HDMI Rx)
V+3RX
Is the voltage 3.3 V?
No
Check the L101. If L101 is failure, replace L101.
Yes
L103
3.3 V (HDMI Rx)
V+3RA
Is the voltage 3.3 V?
No
Check the L103. If L103 is failure, replace L103.
Yes
L105
3.3 V (HDMI Rx)
3.3V_RX1
Is the voltage 3.3 V?
No
Check the L105. If L105 is failure, replace L105.
Yes
L106
3.3 V (HDMI Rx)
3.3V_RX2
Is the voltage 3.3 V?
No
Check the L106. If L106 is failure, replace L106.
Yes
C912, C913
1.8 V (HDMI)
V+1R8
Is the voltage 1.8 V?
No
Check the IC902 or Q901 or L902 or D901. If IC902 or Q901 or L902 or D901 is failure, replace IC902 or Q901 or L902 or D901.
Yes
L102
1.8 V (HDMI Rx)
V+1R8RX
Is the voltage 1.8 V?
No
Check the L102. If L102 is failure, replace L102.
Yes
L104
1.8 V (HDMI Rx)
1.8V_RX1
Is the voltage 1.8 V?
No
Check the L104. If L104 is failure, replace L104.
Yes
L301
3.3 V (HDMI Tx)
V+3TX
Is the voltage 3.3 V?
No
Check the L301. If L301 is failure, replace L301.
Yes
L303
3.3 V (HDMI Tx)
3.3V_TX1
Is the voltage 3.3 V?
No
Check the L303. If L303 is failure, replace L303.
Yes
L302
1.8 V (HDMI Tx)
V+1R8TX
Is the voltage 1.8 V?
No
Check the L302. If L302 is failure, replace L302.
Yes
L304
1.8 V (HDMI Tx)
1.8V_TX1
Is the voltage 1.8 V?
No
Check the L304. If L304 is failure, replace L304.
Yes
L305
1.8 V (HDMI Tx)
1.8V_ TX2
Is the voltage 1.8 V?
No
Check the L305. If L305 is failure, replace L305.
Yes
Step 2-2: Reset
IC501 (Pin 22)
RXRST
B-1
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path. If IC501 or IC502 is failure, replace IC501 or IC502.
Yes
IC501 (Pin 25)
TXRST
B-2
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path. If IC501 or IC502 is failure, replace IC501 or IC502.
Yes
Step 2-3: Source 5V
* When connected the source equipment to IN1.
JA101 (Pin 18)
V5R0 (HDMI IN1)
C-1
Is the voltage "H" (5 V)?
No
Check the patterns, JA101 in the path. If JA101 is failure, replace JA101.
Yes
B

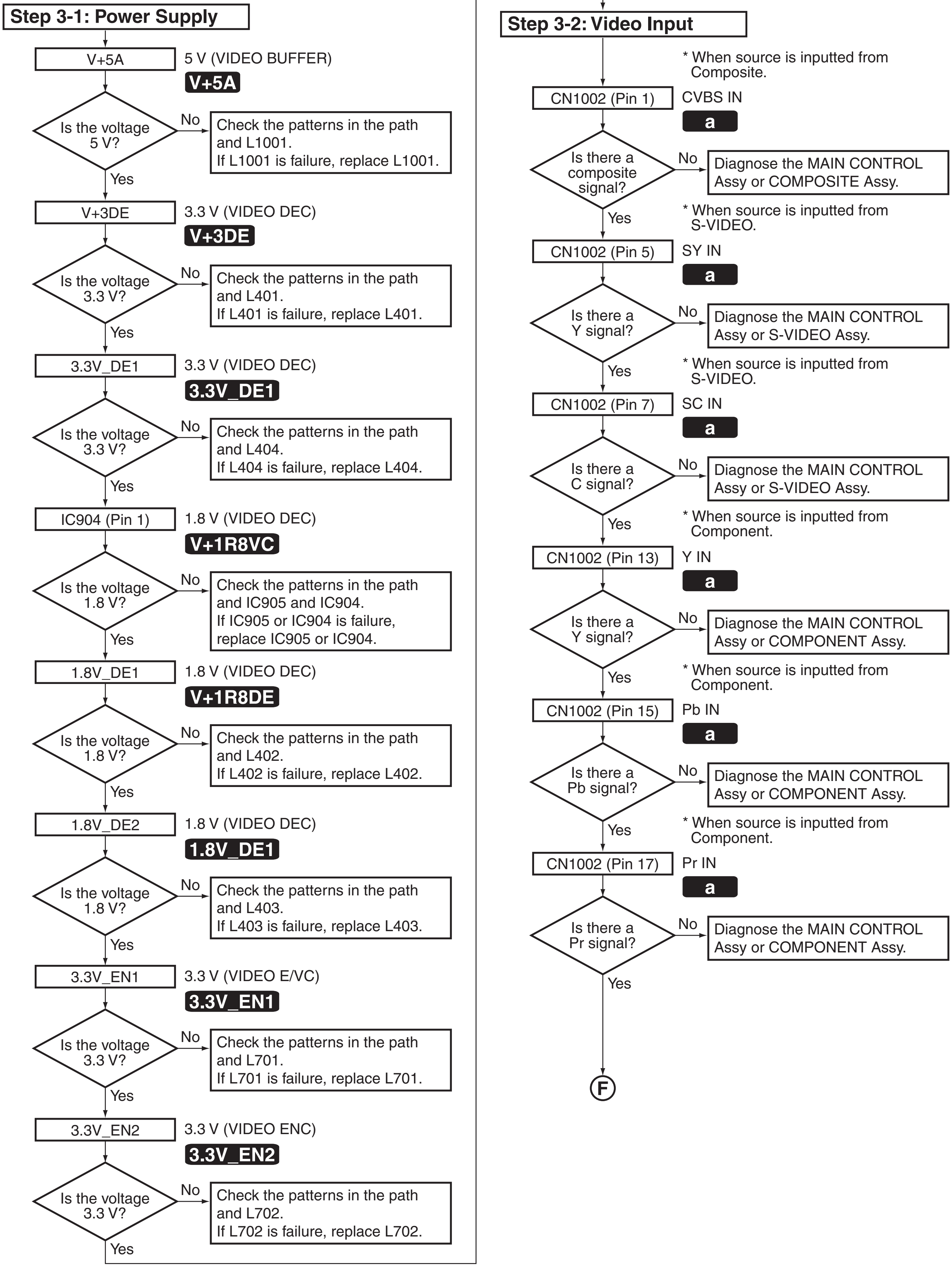

B
IC101 (Pin 35)
HPDET1 (HDMI IN2)
C-2
Is the voltage "H" (3.3 V)?
No
Check the patterns in the path. If Q101 or R133 is failure, replace Q101 or R133.
Yes
* When connected the source equipment to IN2.
JA102 (Pin 18)
V+5RI (HDMI IN2)
C-3
Is the voltage "H" (5 V)?
No
Check the JA102. If JA102 is failure, replace JA102.
Yes
IC101 (Pin 30)
RIPWR 5V
C-4
Is the voltage "H" (3.3 V)?
No
Check the patterns, Q101 or R134 in the path. If Q101 or R134 is failure, replace Q101 or R134.
Yes
Step 2-4: Hot Plug Detect
* When connected the source equipment to IN1.
IC501 (Pin 92)
HPDETO (HDMI IN1)
D-1
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path. If IC501 is failure, replace IC501.
Yes
JA101 (Pin 19)
HPD (HDMI IN1)
D-2
Is the voltage 5 V?
No
Check the parts and patterns in the path. If Q151 or R161 is failure, replace Q151 or R161.
Yes
* When connected the source equipment to IN2.
IC501 (Pin 93)
HPDETI (HDMI IN2)
D-3
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path. If IC501 is failure, replace IC501.
Yes
JA102 (Pin 19)
HPD (HDMI IN2)
D-4
Is the voltage 5 V?
Check the parts and patterns in the path. If Q171 or R181 is failure, replace Q171 or R181.
Yes
* When connected the sink equipment to OUT
JA301 (Pin 19)
HPD (HDMI OUT)
D-5
Is the voltage "H" (5 V)?
No
Check the patterns, JA301 in the path. If JA301 is failure, replace JA301.
Yes
Step 2-5: DDC
* When connected the source equipment to IN1.
JA101 (Pin 16)
SDA (HDMI IN1)
E-1
Does a signal output in constant period (0 to 5 V) ?
No
Check the patterns and JA101 in the path. If JA101 is failure, replace JA101.
Yes
JA101 (Pin 15)
SCL (HDMI IN1)
E-2
Does a clock output in constant period (0 to 5 V) ?
No
Check the patterns and JA101 in the path. If JA101 is failure, replace JA101.
Yes
IC152 (Pin 7)
E-3
Is there a same signal as E-1 (0 to 4.4 V)?
No
Check the patterns, IC152 or IC153 in the path. If IC152 or IC153 is failure, replace IC152 or IC153.
Yes
IC152 (Pin 4)
E-4
Is there a same signal as E-2 (0 to 4.4 V)?
No
Check the patterns, IC152 or IC153 in the path. If IC152 or IC153 is failure, replace IC152 or IC153.
Yes
R167
DSDA0
E-5
Is there a same signal as E-1 (0 to 3.3 V)?
No
Check the patterns and R167 in the path. If R167 is failure, replace R167.
Yes
R168
DSCL0
E-6
Is there a same signal as E-2 (0 to 3.3 V)?
No
Check the patterns and R168 in the path. If R168 is failure, replace R168.
Yes
* When connected the source equipment to IN2.
C

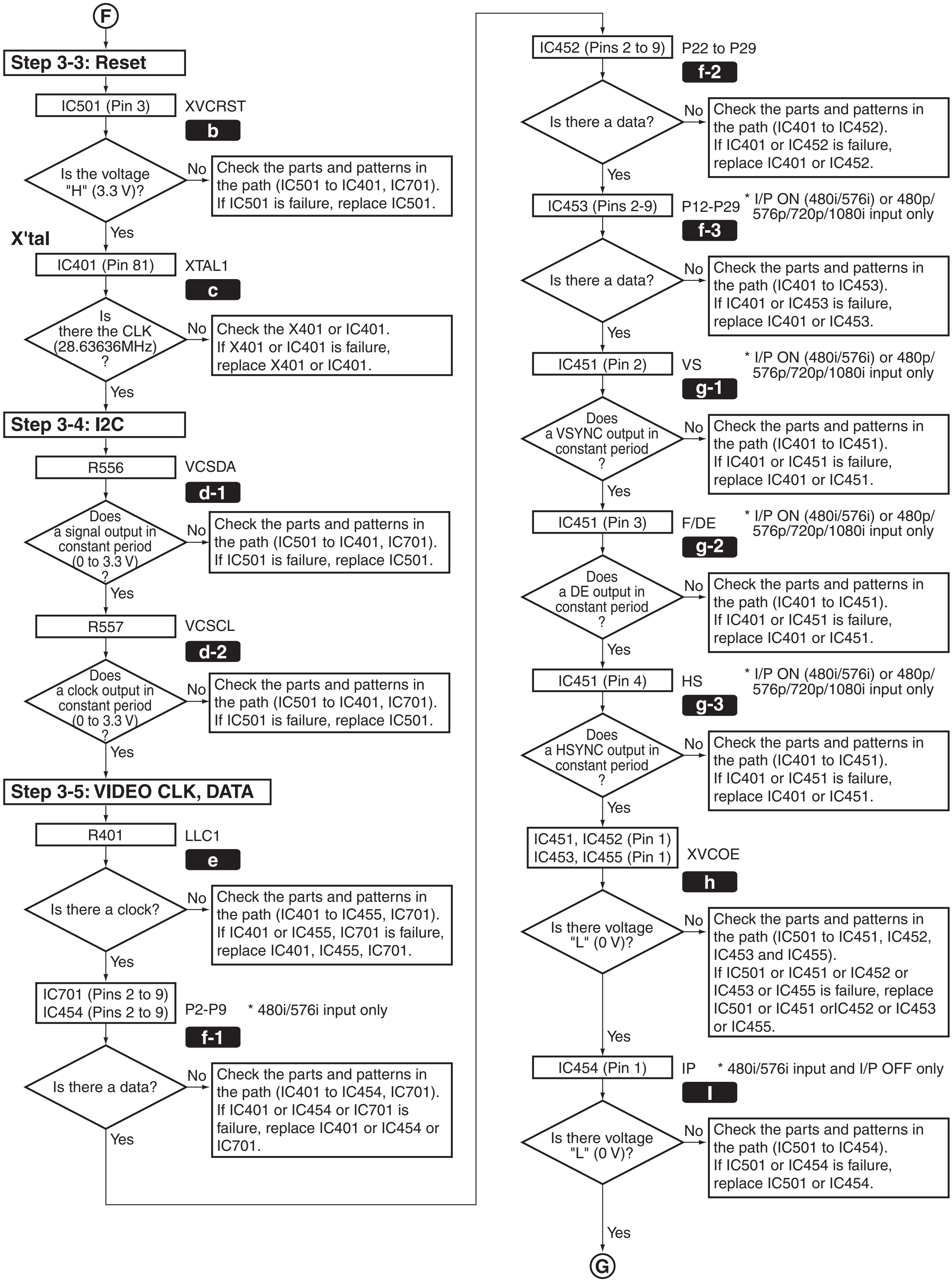

C
JA102 (Pin 16)
SDA (HDMI IN2)
E-7
Does a signal output in constant period (0 to 5 V)?
No
Check the patterns and JA102 in the path. If JA102 is failure, replace JA102.
Yes
JA102 (Pin 15)
SCL (HDMI IN2)
E-8
Does a clock output in constant period (0 to 5 V)?
No
Check the patterns and JA102 in the path. If JA102 is failure, replace JA102.
Yes
IC172 (Pin 7)
E-9
Is there a same signal as E-7 (0 to 4.4 V)?
No
Check the patterns, IC172 or IC173 in the path. If IC172 or IC173 is failure, replace IC172 or IC173.
Yes
IC172 (Pin 4)
E-10
Is there a same signal as E-8 (0 to 4.4 V)?
No
Check the patterns, IC172 or IC173 in the path. If IC172 or IC173 is failure, replace IC172 or IC173.
Yes
R169
DSDA1
E-11
Is there a same signal as E-7 (0 to 3.3 V)?
No
Check the patterns and R169 in the path. If R169 is failure, replace R169.
Yes
R170
DSCL1
E-12
Is there a same signal as E-8 (0 to 3.3 V)?
No
Check the patterns and R170 in the path. If R170 is failure, replace R170.
Yes
* When connected the sink equipment to OUT.
JA301 (Pin 16)
SDA (HDMI OUT)
E-13
Does a signal output in constant period (0 to 5 V)?
No
Check the patterns and JA301 in the path. If JA301 is failure, replace JA301.
Yes
JA301 (Pin 15)
SCL (HDMI OUT)
E-14
Does a clock output in constant period (0 to 5 V)?
No
Check the patterns and JA301 in the path. If JA301 is failure, replace JA301.
Yes
R358
DSDA
E-15
Is there a same signal as E-13 (0 to 3.3 V)?
No
Check the patterns and R358 in the path. If R358 is failure, replace R358.
Yes
R357
DSCL
E-16
Is there a same signal as E-14 (0 to 3.3 V)?
No
Check the patterns and R357 in the path. If R357 is failure, replace R357.
Yes
Step 2-6: VIDEO CLK, DATA
DCK
DCK
F
Is there a clock?
No
Check the parts and patterns in the path (IC101 to IC301). If IC101 is failure, replace IC101.
Yes
D4 to D11
D4 to D11 *Skip at analog to HDMI
G-1
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC301). If IC101 is failure, replace IC101.
Yes
D16 to D23
D16 to D23
G-2
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC301). If IC101 is failure, replace IC101.
Yes
D28 to D35
D28 to D35 *Skip at analog to HDMI 480i/576i
G-3
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC301). If IC101 is failure, replace IC101.
Yes
D


D
VSYNC
VSYNC
H-1
Does a VSYNC output in constant period ?
No
Check the parts and patterns in the path (IC101 to IC301). If IC101 is failure, replace IC101.
Yes
HSYNC
HSYNC
H-2
Does a HSYNC output in constant period ?
No
Check the parts and patterns in the path (IC101 to IC301). If IC101 is failure, replace IC101.
Yes
DE
DE
H-3
Does a DE output in constant period ?
No
Check the parts and patterns in the path (IC101 to IC301). If IC101 is failure, replace IC101.
Yes
Step 2-7: AUDIO CLOCK, DATA
(a): HDMI → HDMI
(b): ANALOG → HDMI(THROUGH MODE)
(b)
CN1001 (Pin 20)
MCKI
O
Is there a clock?
No
Check the parts and patterns in the path (CN1001 to IC202).
No
Diagnose the DSP Assy.
Yes
(b)
CN1001 (Pin 26)
BCKI
O
Is there a clock?
No
Check the parts and patterns in the path (CN1001 to IC202).
No
Diagnose the DSP Assy.
Yes
(b)
CN1001 (Pin 27)
LRCKI
O
Is there a clock?
No
Check the parts and patterns in the path (CN1001 to IC202).
No
Diagnose the DSP Assy.
Yes
(b)
CN1001 (Pin 18)
DATAI
O
Is there a data?
No
Check the parts and patterns in the path (CN1001 to IC202).
No
Diagnose the DSP Assy.
Yes
(b)
IC202 (Pins 1,4,10,13)
XBAOUT
M-2
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 to IC202). If IC501 is failure, replace IC501.
Yes
(a)(b)
IC201 (Pin 2)
MCLK
I
Is there a clock?
No
Check the parts and patterns in the path (IC101 to IC201, IC202 and IC301). If IC101 is failure, replace IC101.
Yes
(a)
IC201 (Pin 9)
SPDIF
J
Is there a SPDIF?
No
Check the parts and patterns in the path (IC101 to IC201, IC301). If IC101 is failure, replace IC101.
Yes
(a)(b)
IC201 (Pin 3)
SCK(BCK)
K-1
Is there a clock?
No
Check the parts and patterns in the path (IC101 to IC201, IC202 and IC301). If IC101 is failure, replace IC101.
Yes
(a)(b)
IC201 (Pin 4)
WS(LRCK)
K-2
Is there a clock?
No
Check the parts and patterns in the path (IC101 to IC201, IC202 and IC301). If IC101 is failure, replace IC101.
Yes
(a)(b)
IC201 (Pin 5)
SD0(DATA)
L-1
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC201, IC202 and IC301). If IC101 is failure, replace IC101.
Yes
(a)
IC201 (Pin 6)
SD1(DATA)
L-2
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC201, IC301). If IC101 is failure, replace IC101.
Yes
E

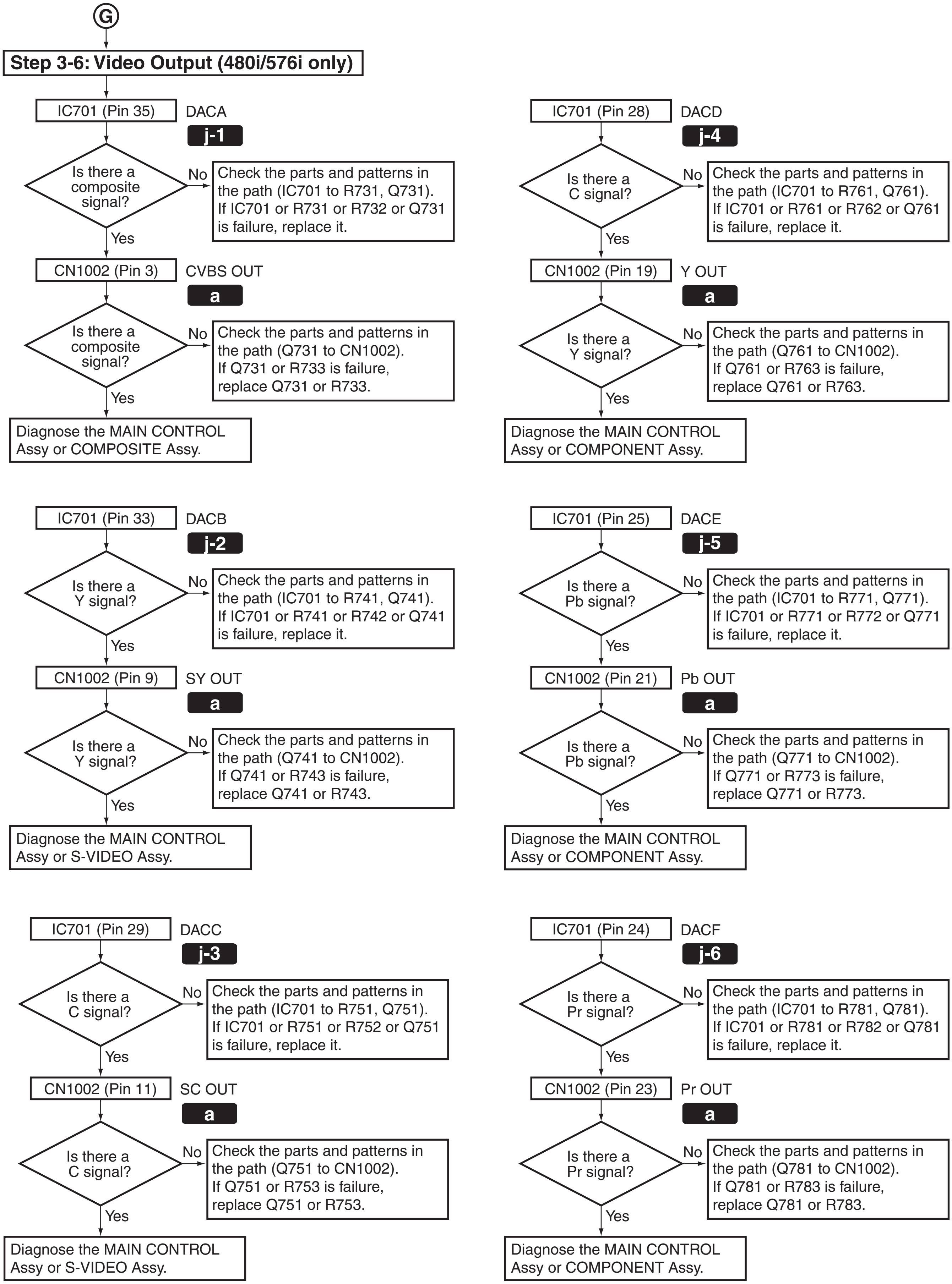

E
(a)
IC201 (Pin 7)
SD2(DATA)
L-3
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC201, IC301). If IC101 is failure, replace IC101.
Yes
(a)
IC201 (Pin 8)
SD3(DATA)
L-4
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC201, IC301). If IC101 is failure, replace IC101.
Yes
(a)
IC201 (Pin 19)
DA_OFF
M-1
Is there voltage "L"(AMP MODE) or "H"(THROUGH MODE)?
No
Check the parts and patterns in the path (IC501 to IC202). If IC501 is failure, replace IC501.
Yes
(a)
CN1001 (Pin 10)
MCLK
O
Is there a clock?
No
Check the parts and patterns in the path (IC202 and IC203 to CN1001). If IC202 or IC203 is failure, replace IC202 or IC203.
Yes
(a)
CN1001 (Pin 22)
SPDIF
O
Is there a SPDIF?
No
Check the parts and patterns in the path (IC202 to CN1001). If IC202 is failure, replace IC202.
Yes
(a)
CN1001 (Pin 12)
SCK(BCK)
O
Is there a clock?
No
Check the parts and patterns in the path (IC202 to CN1001). If IC202 is failure, replace IC202.
Yes
(a)
CN1001 (Pin 13)
WS(LRCK)
O
Is there a clock?
No
Check the parts and patterns in the path (IC202 to CN1001). If IC202 is failure, replace IC202.
Yes
(a)
CN1001 (Pin 14 to 17)
SD0-3(DATA)
O
Is there a data?
No
Check the parts and patterns in the path (IC202 to CN1001). If IC202 is failure, replace IC202.
Yes
(a)
CN1001 (Pin 8)
MUTEOUT
O
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 to CN1001). If IC501 is failure, replace IC501.
Diagnose the DSP Assy.

Video converter section


Step 3-1: Power Supply
V+5A
5 V (VIDEO BUFFER)
V+5A
Is the voltage 5 V?
No
Check the patterns in the path and L1001. If L1001 is failure, replace L1001.
Yes
V+3DE
3.3 V (VIDEO DEC)
V+3DE
Is the voltage 3.3 V?
No
Check the patterns in the path and L401. If L401 is failure, replace L401.
Yes
3.3V_DE1
3.3 V (VIDEO DEC)
3.3V_DE1
Is the voltage 3.3 V?
No
Check the patterns in the path and L404. If L404 is failure, replace L404.
Yes
IC904 (Pin 1)
1.8 V (VIDEO DEC)
V+1R8VC
Is the voltage 1.8 V?
No
Check the patterns in the path and IC905 and IC904. If IC905 or IC904 is failure, replace IC905 or IC904.
Yes
1.8V_DE1
1.8 V (VIDEO DEC)
V+1R8DE
Is the voltage 1.8 V?
No
Check the patterns in the path and L402. If L402 is failure, replace L402.
Yes
1.8V_DE2
1.8 V (VIDEO DEC)
1.8V_DE1
Is the voltage 1.8 V?
No
Check the patterns in the path and L403. If L403 is failure, replace L403.
Yes
3.3V_EN1
3.3 V (VIDEO E/VC)
3.3V_EN1
Is the voltage 3.3 V?
No
Check the patterns in the path and L701. If L701 is failure, replace L701.
Yes
3.3V_EN2
3.3 V (VIDEO ENC)
3.3V_EN2
Is the voltage 3.3 V?
No
Check the patterns in the path and L702. If L702 is failure, replace L702.
Yes
Step 3-2: Video Input
* When source is inputted from Composite.
CN1002 (Pin 1)
CVBS IN
a
Is there a composite signal?
No
Diagnose the MAIN CONTROL Assy or COMPOSITE Assy.
Yes
* When source is inputted from S-VIDEO.
CN1002 (Pin 5)
SY IN
a
Is there a Y signal?
No
Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.
Yes
* When source is inputted from S-VIDEO.
CN1002 (Pin 7)
SC IN
a
Is there a C signal?
No
Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.
Yes
* When source is inputted from Component.
CN1002 (Pin 13)
Y IN
a
Is there a Y signal?
No
Diagnose the MAIN CONTROL Assy or COMPONENT Assy.
Yes
* When source is inputted from Component.
CN1002 (Pin 15)
Pb IN
a
Is there a Pb signal?
No
Diagnose the MAIN CONTROL Assy or COMPONENT Assy.
Yes
* When source is inputted from Component.
CN1002 (Pin 17)
Pr IN
a
Is there a Pr signal?
No
Diagnose the MAIN CONTROL Assy or COMPONENT Assy.
Yes
F


F
Step 3-3: Reset
IC501 (Pin 3)
XVCRST
b
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path (IC501 to IC401, IC701). If IC501 is failure, replace IC501.
Yes
X'tal
IC401 (Pin 81)
XTAL1
c
Is there the CLK (28.63636MHz) ?
No
Check the X401 or IC401. If X401 or IC401 is failure, replace X401 or IC401.
Yes
Step 3-4: I2C
R556
VCSDA
d-1
Does a signal output in constant period (0 to 3.3 V) ?
No
Check the parts and patterns in the path (IC501 to IC401, IC701). If IC501 is failure, replace IC501.
Yes
R557
VCSCL
d-2
Does a clock output in constant period (0 to 3.3 V) ?
No
Check the parts and patterns in the path (IC501 to IC401, IC701). If IC501 is failure, replace IC501.
Yes
Step 3-5: VIDEO CLK, DATA
R401
LLC1
e
Is there a clock?
No
Check the parts and patterns in the path (IC401 to IC455, IC701). If IC401 or IC455, IC701 is failure, replace IC401, IC455, IC701.
Yes
IC701 (Pins 2 to 9)
IC454 (Pins 2 to 9)
P2-P9
* 480i/576i input only
f-1
Is there a data?
No
Check the parts and patterns in the path (IC401 to IC454, IC701). If IC401 or IC454 or IC701 is failure, replace IC401 or IC454 or IC701.
Yes
IC452 (Pins 2 to 9)
P22 to P29
f-2
Is there a data?
No
Check the parts and patterns in the path (IC401 to IC452). If IC401 or IC452 is failure, replace IC401 or IC452.
Yes
IC453 (Pins 2-9)
P12-P29
* I/P ON (480i/576i) or 480p/576p/720p/1080i input only
f-3
Is there a data?
No
Check the parts and patterns in the path (IC401 to IC453). If IC401 or IC453 is failure, replace IC401 or IC453.
Yes
IC451 (Pin 2)
VS
* I/P ON (480i/576i) or 480p/576p/720p/1080i input only
g-1
Does a VSYNC output in constant period ?
No
Check the parts and patterns in the path (IC401 to IC451). If IC401 or IC451 is failure, replace IC401 or IC451.
Yes
IC451 (Pin 3)
F/DE
* I/P ON (480i/576i) or 480p/576p/720p/1080i input only
g-2
Does a DE output in constant period ?
No
Check the parts and patterns in the path (IC401 to IC451). If IC401 or IC451 is failure, replace IC401 or IC451.
Yes
IC451 (Pin 4)
HS
* I/P ON (480i/576i) or 480p/576p/720p/1080i input only
g-3
Does a HSYNC output in constant period ?
No
Check the parts and patterns in the path (IC401 to IC451). If IC401 or IC451 is failure, replace IC401 or IC451.
Yes
IC451, IC452 (Pin 1)
IC453, IC455 (Pin 1)
XVCOE
h
Is there voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 to IC451, IC452, IC453 and IC455). If IC501 or IC451 or IC452 or IC453 or IC455 is failure, replace IC501 or IC451 orIC452 or IC453 or IC455.
Yes
IC454 (Pin 1)
IP
* 480i/576i input and I/P OFF only
I
Is there voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 to IC454). If IC501 or IC454 is failure, replace IC501 or IC454.
Yes
G

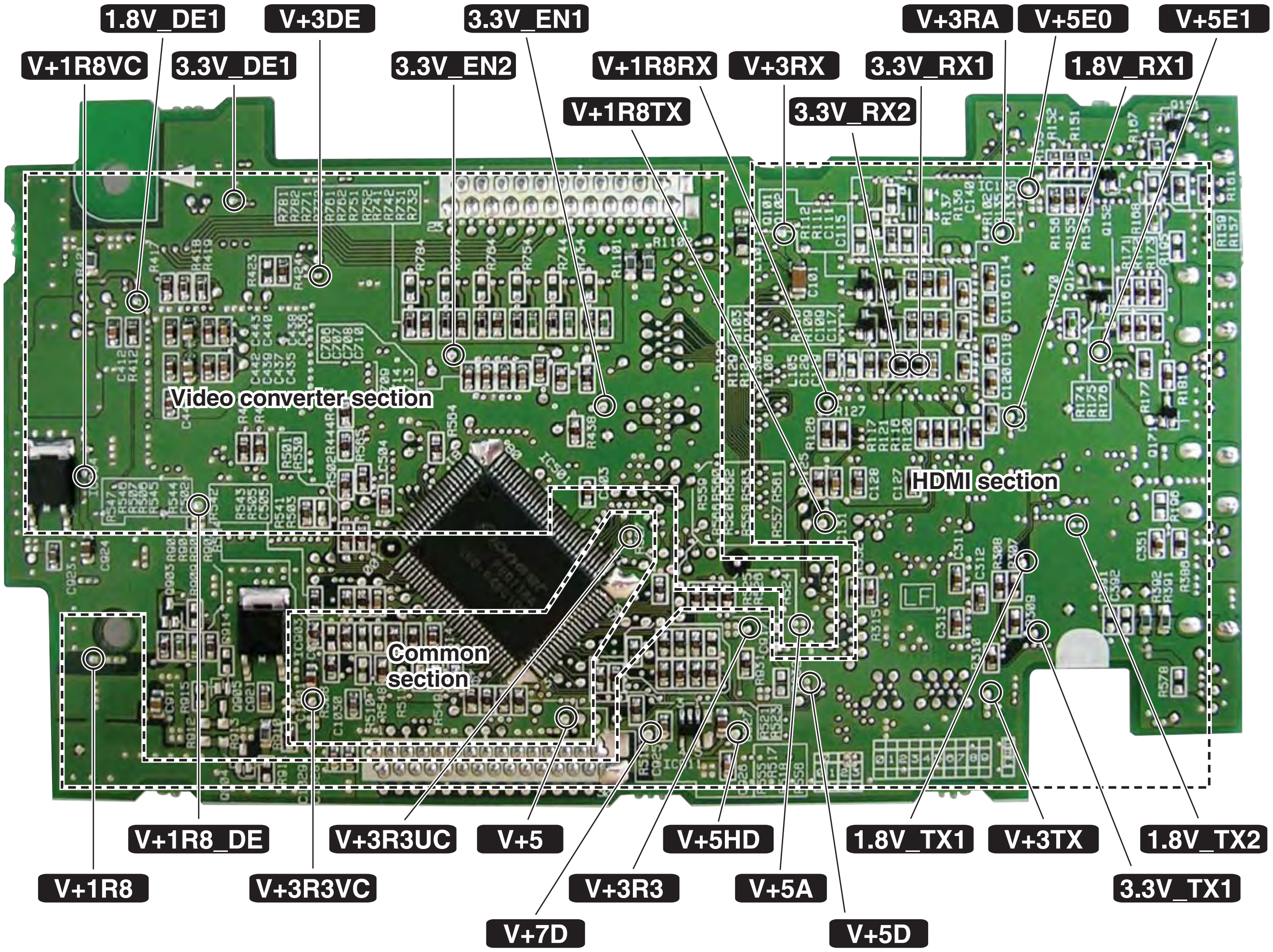
Step 3-6: Video Output (480i/576i only)


G
Step 3-6: Video Output (480i/576i only)
IC701 (Pin 35)
DACA
j-1
Is there a composite signal?
No
Check the parts and patterns in the path (IC701 to R731, Q731). If IC701 or R731 or R732 or Q731 is failure, replace it.
Yes
CN1002 (Pin 3)
CVBS OUT
a
Is there a composite signal?
No
Check the parts and patterns in the path (Q731 to CN1002). If Q731 or R733 is failure, replace Q731 or R733.
Yes
Diagnose the MAIN CONTROL Assy or COMPOSITE Assy.
IC701 (Pin 28)
DACD
j-4
Is there a C signal?
No
Check the parts and patterns in the path (IC701 to R761, Q761). If IC701 or R761 or R762 or Q761 is failure, replace it.
Yes
CN1002 (Pin 19)
Y OUT
a
Is there a Y signal?
No
Check the parts and patterns in the path (Q761 to CN1002). If Q761 or R763 is failure, replace Q761 or R763.
Yes
Diagnose the MAIN CONTROL Assy or COMPONENT Assy.
IC701 (Pin 33)
DACB
j-2
Is there a Y signal?
No
Check the parts and patterns in the path (IC701 to R741, Q741). If IC701 or R741 or R742 or Q741 is failure, replace it.
Yes
CN1002 (Pin 9)
SY OUT
a
Is there a Y signal?
No
Check the parts and patterns in the path (Q741 to CN1002). If Q741 or R743 is failure, replace Q741 or R743.
Yes
Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.
IC701 (Pin 25)
DACE
j-5
Is there a Pb signal?
No
Check the parts and patterns in the path (IC701 to R771, Q771). If IC701 or R771 or R772 or Q771 is failure, replace it.
Yes
CN1002 (Pin 21)
Pb OUT
a
Is there a Pb signal?
No
Check the parts and patterns in the path (Q771 to CN1002). If Q771 or R773 is failure, replace Q771 or R773.
Yes
Diagnose the MAIN CONTROL Assy or COMPONENT Assy.
IC701 (Pin 29)
DACC
j-3
Is there a C signal?
No
Check the parts and patterns in the path (IC701 to R751, Q751). If IC701 or R751 or R752 or Q751 is failure, replace it.
Yes
CN1002 (Pin 11)
SC OUT
a
Is there a C signal?
No
Check the parts and patterns in the path (Q751 to CN1002). If Q751 or R753 is failure, replace Q751 or R753.
Yes
Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.
IC701 (Pin 24)
DACF
j-6
Is there a Pr signal?
No
Check the parts and patterns in the path (IC701 to R781, Q781). If IC701 or R781 or R782 or Q781 is failure, replace it.
Yes
CN1002 (Pin 23)
Pr OUT
a
Is there a Pr signal?
No
Check the parts and patterns in the path (Q781 to CN1002). If Q781 or R783 is failure, replace Q781 or R783.
Yes
Diagnose the MAIN CONTROL Assy or COMPONENT Assy.

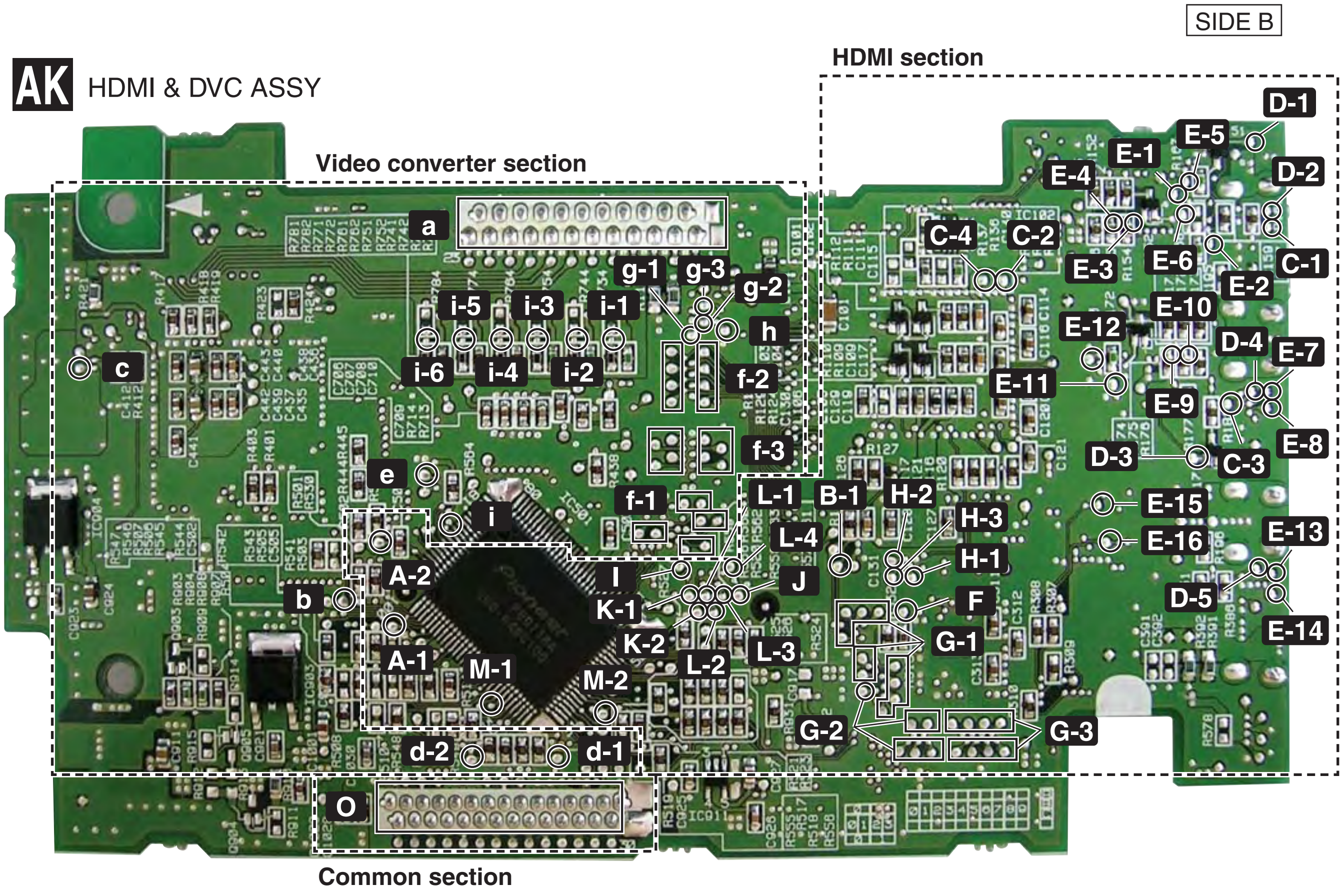
■ HDMI & DVC Assy Check Points (Power supply section)

AK HDMI & DVC ASSY

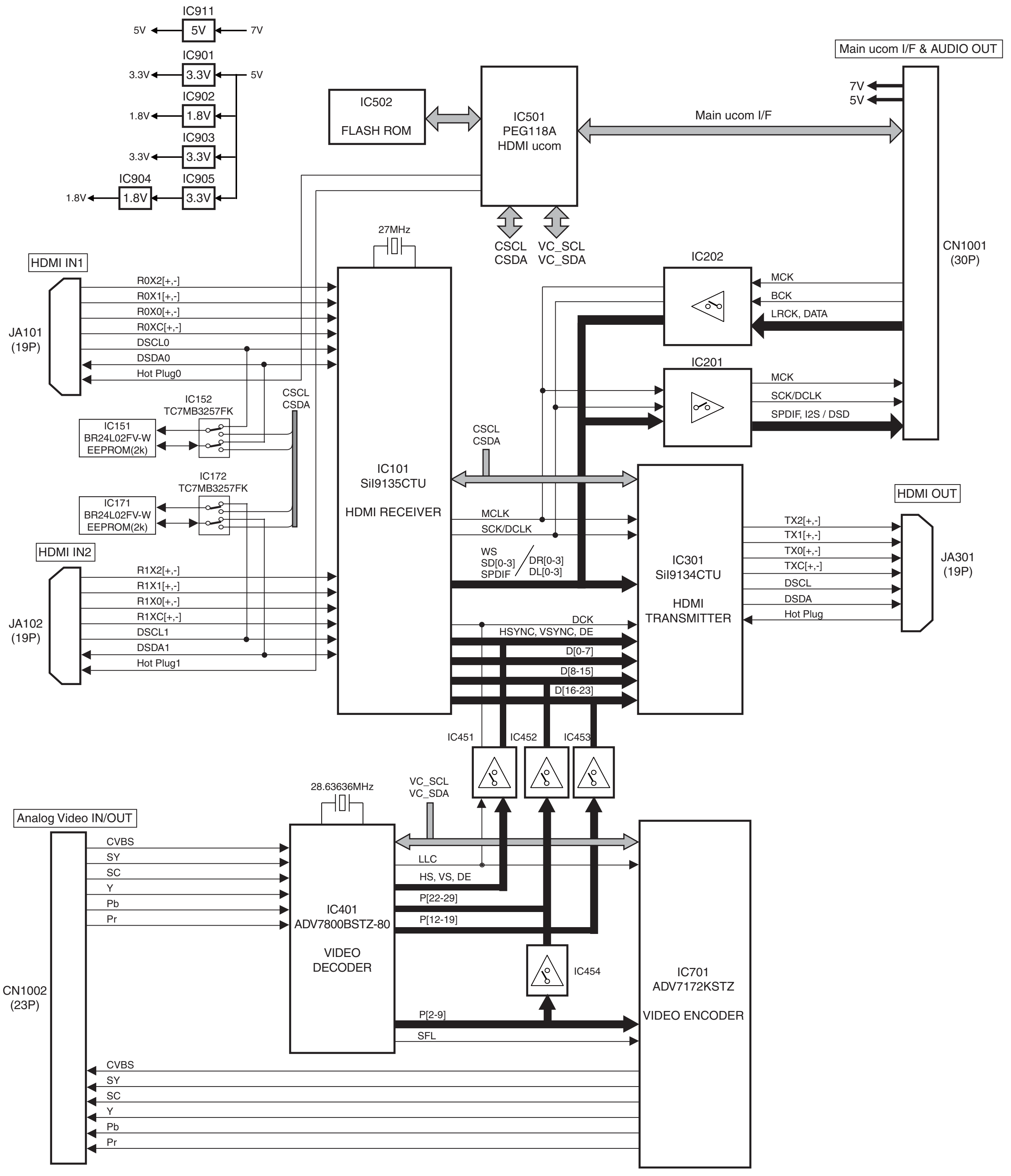
SIDE B


1.8V_DE1
V+3DE
3.3V_EN1
V+3RA
V+5E0
V+5E1
V+1R8VC
3.3V_DE1
3.3V_EN2
V+1R8RX
V+3RX
3.3V_RX1
1.8V_RX1
V+1R8TX
3.3V_RX2
Video converter section
HDMI section
Common section
LF
V+1R8_DE
V+3R3UC
V+5
V+5HD
1.8V_TX1
V+3TX
1.8V_TX2
V+1R8
V+3R3VC
V+3R3
V+5A
3.3V_TX1
V+7D
V+5D

■ HDMI & DVC Assy Check Points (Signal section)


SIDE B
AK HDMI & DVC ASSY
HDMI section
Video converter section
Common section
a
b
c
d-1
d-2
e
f-1
f-2
f-3
g-1
g-2
g-3
h
i
i-1
i-2
i-3
i-4
i-5
i-6
A-1
A-2
B-1
C-1
C-2
C-3
C-4
D-1
D-2
D-3
D-4
D-5
E-1
E-2
E-3
E-4
E-5
E-6
E-7
E-8
E-9
E-10
E-11
E-12
E-13
E-14
E-15
E-16
F
G-1
G-2
G-3
H-1
H-2
H-3
I
J
K-1
K-2
L-1
L-2
L-3
L-4
M-1
M-2
O

HDMI&DVC ASSY Block Diagram


IC911
5V
5V
7V
IC901
3.3V
3.3V
5V
IC902
1.8V
1.8V
IC903
3.3V
3.3V
IC904
1.8V
1.8V
IC905
3.3V
IC502
FLASH ROM
IC501
PEG118A
HDMI ucom
Main ucom I/F
Main ucom I/F & AUDIO OUT
7V
5V
CN1001
(30P)
CSCL
CSDA
VC_SCL
VC_SDA
27MHz
HDMI IN1
JA101
(19P)
R0X2[+,-]
R0X1[+,-]
R0X0[+,-]
R0XC[+,-]
DSCL0
DSDA0
Hot Plug0
IC152
TC7MB3257FK
CSCL
CSDA
IC151
BR24L02FV-W
EEPROM(2k)
IC172
TC7MB3257FK
IC171
BR24L02FV-W
EEPROM(2k)
HDMI IN2
JA102
(19P)
R1X2[+,-]
R1X1[+,-]
R1X0[+,-]
R1XC[+,-]
DSCL1
DSDA1
Hot Plug1
IC101
SiI9135CTU
HDMI RECEIVER
IC202
MCK
BCK
LRCK, DATA
IC201
MCK
SCK/DCLK
SPDIF, I2S / DSD
CSCL
CSDA
MCLK
SCK/DCLK
WS
SD[0-3]
SPDIF
DR[0-3]
DL[0-3]
DCK
HSYNC, VSYNC, DE
D[0-7]
D[8-15]
D[16-23]
IC301
SiI9134CTU
HDMI
TRANSMITTER
HDMI OUT
TX2[+,-]
TX1[+,-]
TX0[+,-]
TXC[+,-]
DSCL
DSDA
Hot Plug
JA301
(19P)
IC451
IC452
IC453
28.63636MHz
VC_SCL
VC_SDA
Analog Video IN/OUT
CVBS
SY
SC
Y
Pb
Pr
IC401
ADV7800BSTZ-80
VIDEO
DECODER
LLC
HS, VS, DE
P[22-29]
P[12-19]
IC454
P[2-9]
SFL
IC701
ADV7172KSTZ
VIDEO ENCODER
CN1002
(23P)
CVBS
SY
SC
Y
Pb
Pr

5.1.3 USB MODULE (VSX-LX50 Only)

■ Description of Error Indications

FL Display	Error Content	Possible causes and actions to be taken
USB ERROR1	Detection of overcurrent to a USB device	Overcurrent (500 mA or more) is consumed at the connected USB device. • Some USB devices, such as a portable HDD, need more current than that this unit supplies. (Use the AC adaptor for the connected USB device.) • The USB power is short-circuited.
USB ERROR2	Detection of a medium not supported	A USB device that this unit does not support (other than the Mass Storage Class) is connected (such as a mouse, printer, or digital camera). • Connect a mass storage class USB device.
USB ERROR3	Communication error with the system microcomputer	Communication between TCC8600-00X-EA-UG (IC701) and PEG378A (IC101) failed. • Defective connection (connectors) inside this unit • See STEP 3 of Troubleshooting.

■ Operations when overcurrent to a USB device is detected

(1) Overcurrent to a USB device is detected at the port for the microcomputer.

(2) The power supply to the USB device is stopped.

(3) Control of 5 V power is disabled at the port for the microcomputer.

(4) Change of indications on the FL display

Flashes for 2 sec.

USB ERR1

⇩ Lights up after flashing for 2 sec.

USB ERR1

(5) To supply power to the USB module again:

- Turn the power to the unit off then back on.
- Set the function setting to anything other than USB then back to USB.
- Press the USB play key on the remote control unit.

(6) After overcurrent is detected, if the USB play key is pressed while the error indication is displayed, power supply to the USB module is restored. If overcurrent is no longer detected, the indications shown below are displayed (normal indication):

USB

In this state, flashing of "USB ERROR1" stops, but playback will not start. To start playback, press the USB play key again.

In the above case, if overcurrent is detected again, the above procedures 1 through 4 are repeated.

■ In a case where a medium not supported is connected

(1) Change of indications on the FL displays

Flashes for 2 sec.

USB ERR2

⇩ Lights up after flashing for 2 sec.

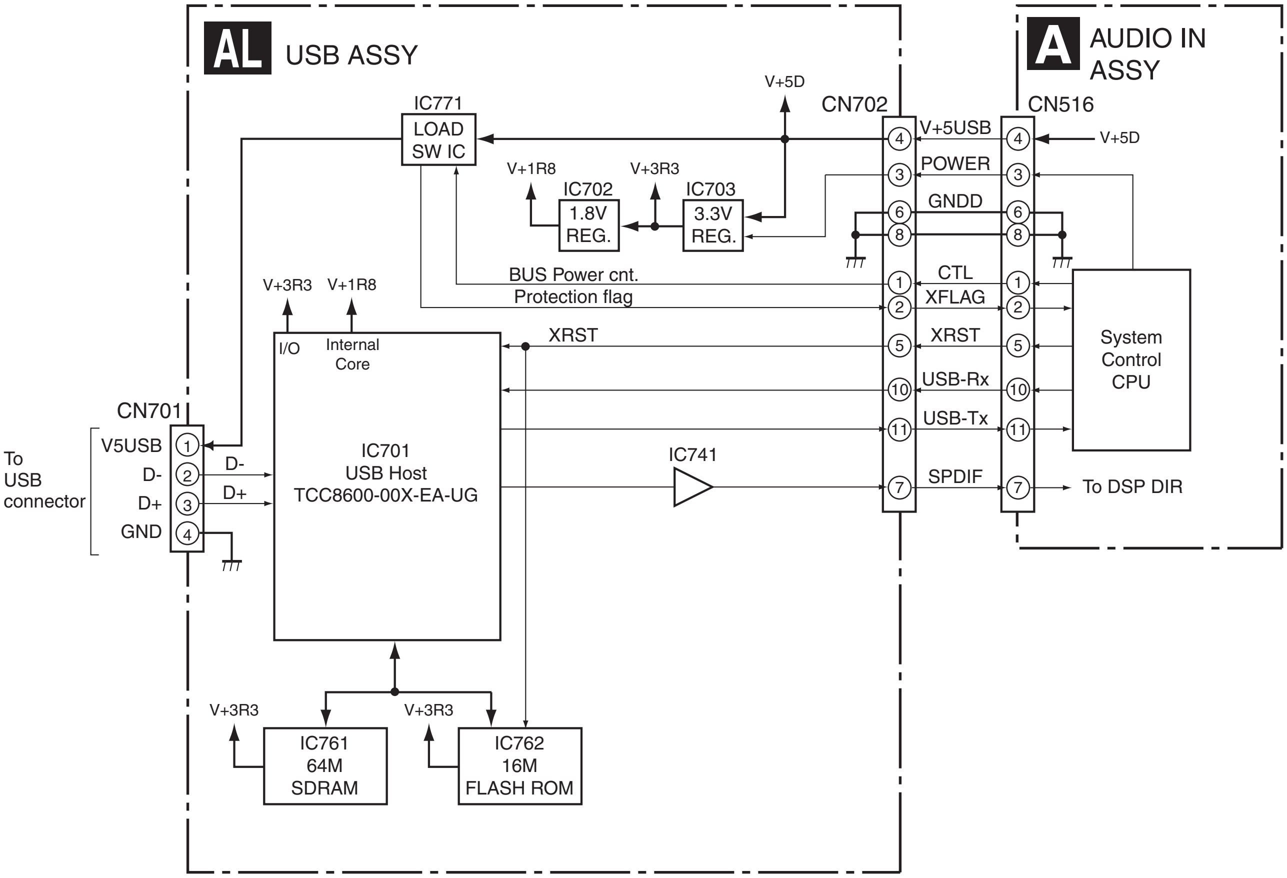
USB ERR2

If overcurrent is detected before detection of a non-supported medium, the error indication "USB ERROR1" remains, as the power supply to the USB module is stopped.

On supported media

The formats of supported media that can be played back on this unit are MP3, WMA, and AAC.
Some media in MPEG4 can also be played back. As AAC derives from MPEG4 codec, playback of media in AAC codec of MPEG4 is possible.

■ Block Diagram of the USB Assy

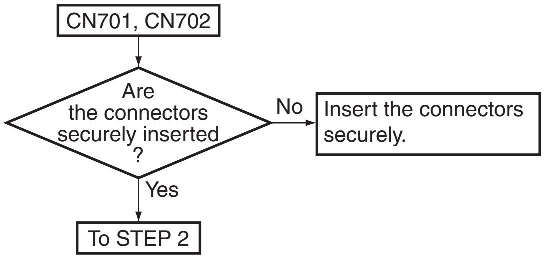


AL USB ASSY
A AUDIO IN ASSY
IC771
LOAD SW IC
V+5D
CN702
CN516
V+5USB
POWER
GNDD
CTL
XFLAG
XRST
USB-Rx
USB-Tx
SPDIF
V+1R8
V+3R3
IC702
1.8V REG.
IC703
3.3V REG.
BUS Power cnt.
Protection flag
System Control CPU
To DSP DIR
I/O
Internal Core
IC701
USB Host
TCC8600-00X-EA-UG
IC741
CN701
V5USB
D-
D+
GND
To USB connector
IC761
64M
SDRAM
IC762
16M
FLASH ROM

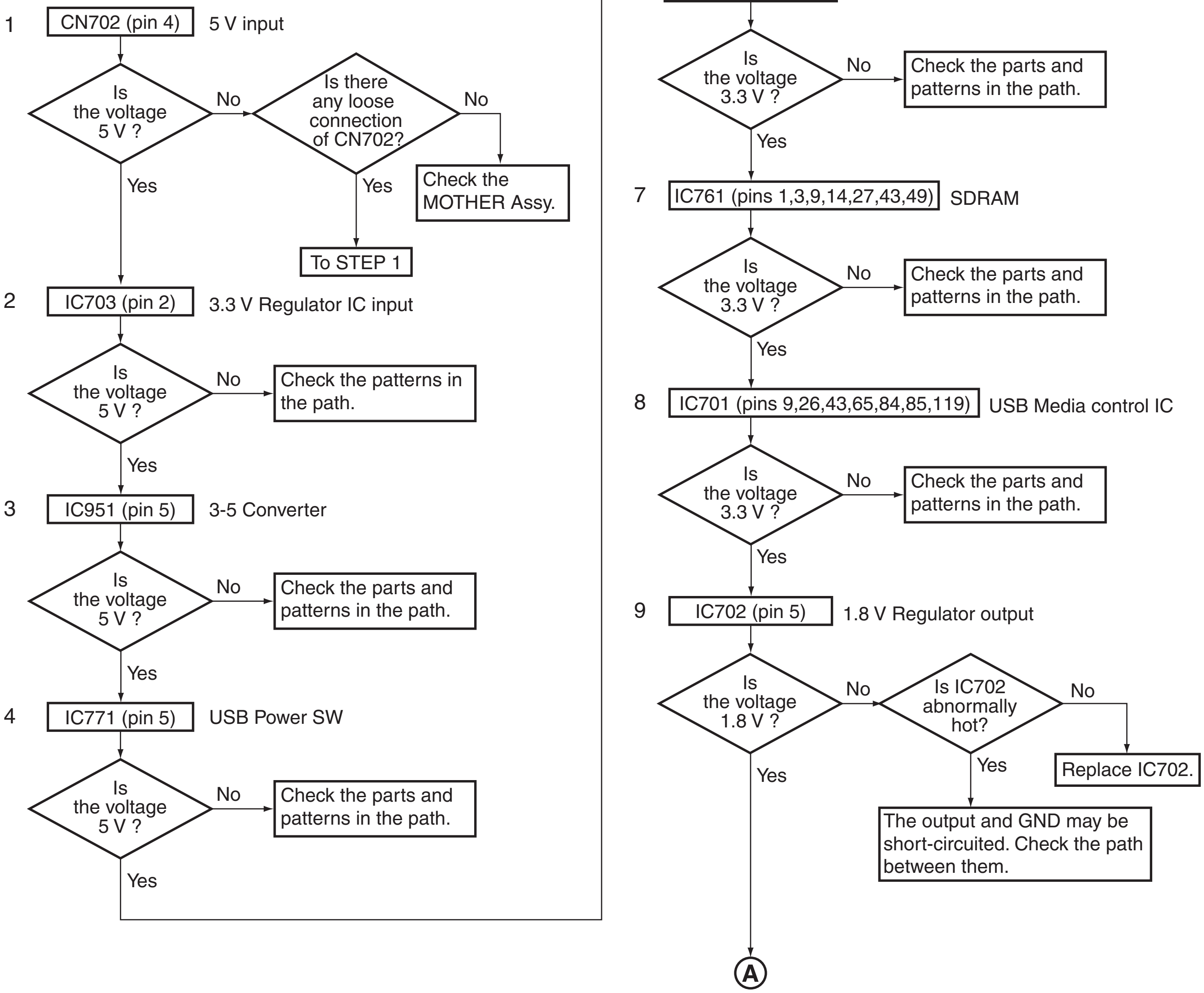
Main parts	Purpose
TCC8600-00X-EA-UG	: USB Host control decoder (MP3/WMA/MPEG-4AAC)
16M FLASH ROM	: Firmware is stored
64M SDRAM	: Temporary storage area of decoding music file
LOAD SWITCH	: Current limitation to USB device power

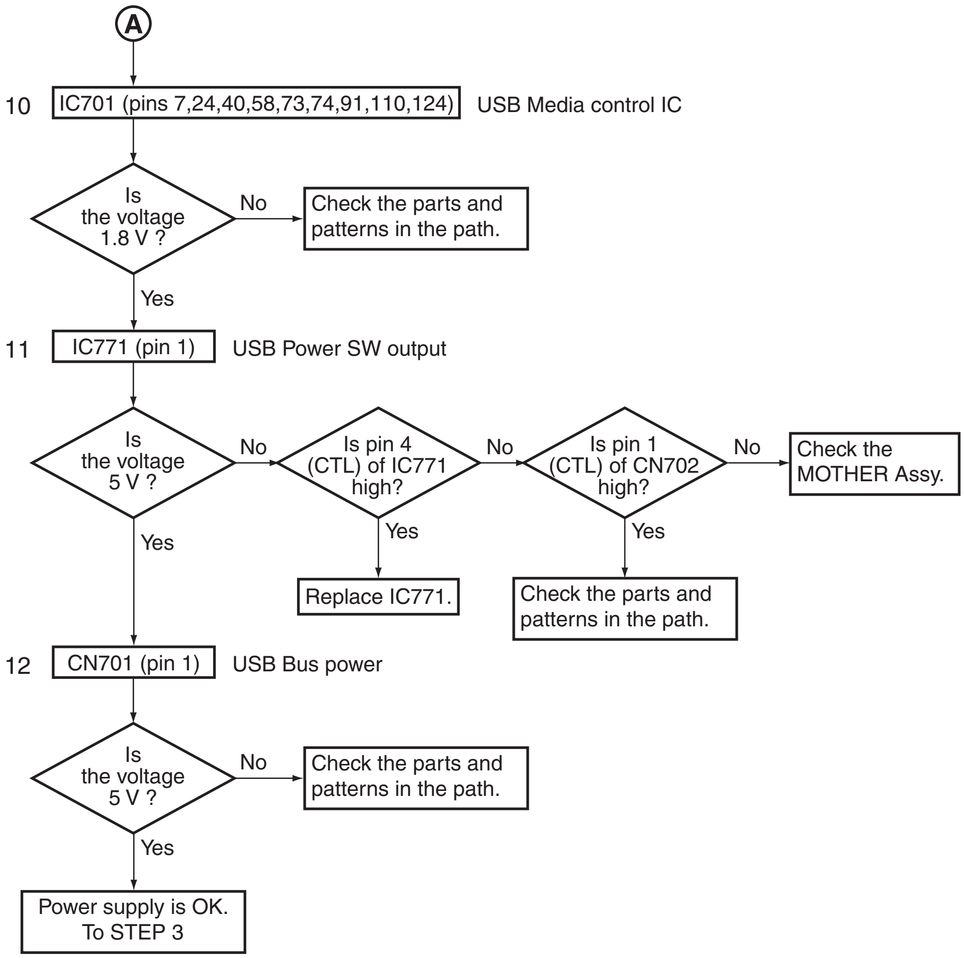
USB Troubleshooting

Step 1: Connectors


CN701, CN702
Are the connectors securely inserted ?
No
Insert the connectors securely.
Yes
To STEP 2

Step 2: Power supply


1
CN702 (pin 4)
5 V input
Is the voltage 5 V ?
No
Is there any loose connection of CN702?
No
Check the MOTHER Assy.
Yes
To STEP 1
Yes
2
IC703 (pin 2)
3.3 V Regulator IC input
Is the voltage 5 V ?
No
Check the patterns in the path.
Yes
3
IC951 (pin 5)
3-5 Converter
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes
4
IC771 (pin 5)
USB Power SW
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes
5
IC703 (pin 4), IC702 (pin 1)
3.3 V Reg. output / 1.8 V Reg. input
Is the voltage 3.3 V ?
No
Is IC703 abnormally hot?
No
Replace IC703.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
6
IC762 (pins 37, 47)
FLASH ROM
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
7
IC761 (pins 1,3,9,14,27,43,49)
SDRAM
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
8
IC701 (pins 9,26,43,65,84,85,119)
USB Media control IC
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
9
IC702 (pin 5)
1.8 V Regulator output
Is the voltage 1.8 V ?
No
Is IC702 abnormally hot?
No
Replace IC702.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
Ⓐ


A
10
IC701 (pins 7,24,40,58,73,74,91,110,124)
USB Media control IC
Is the voltage 1.8 V ?
No
Check the parts and patterns in the path.
Yes
11
IC771 (pin 1)
USB Power SW output
Is the voltage 5 V ?
No
Is pin 4 (CTL) of IC771 high?
No
Is pin 1 (CTL) of CN702 high?
No
Check the MOTHER Assy.
Yes
Replace IC771.
Yes
Check the parts and patterns in the path.
Yes
12
CN701 (pin 1)
USB Bus power
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes
Power supply is OK. To STEP 3

Step 3: Operation of USB Media control IC

Note: Please confirm it with the USB memory connected for the content.

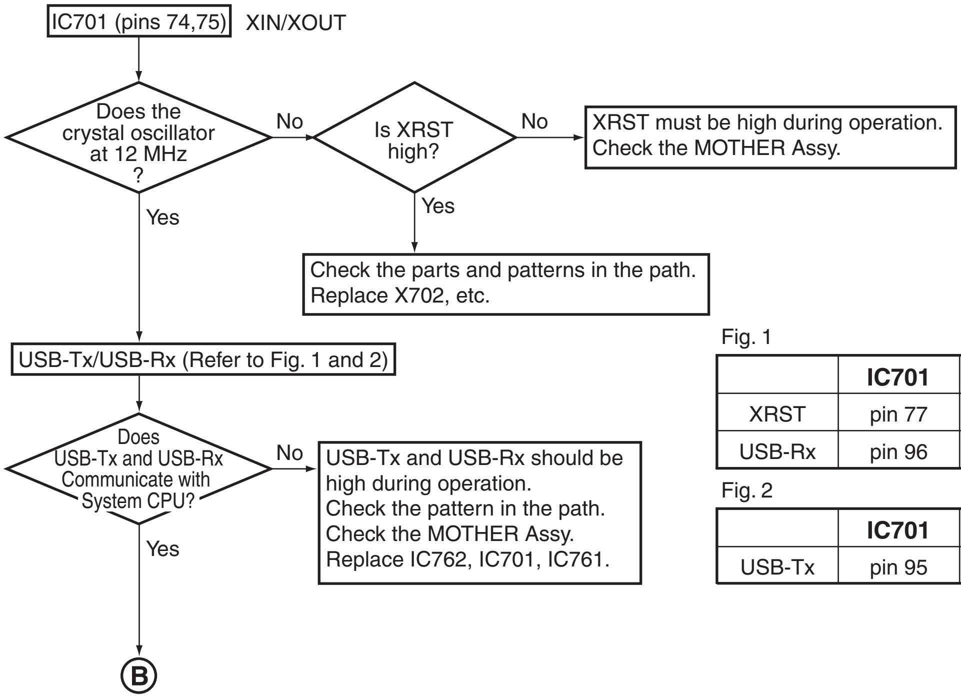

IC701 (pins 74,75)
XIN/XOUT
Does the crystal oscillator at 12 MHz ?
No
Is XRST high?
No
XRST must be high during operation. Check the MOTHER Assy.
Yes
Check the parts and patterns in the path. Replace X702, etc.
Yes
USB-Tx/USB-Rx (Refer to Fig. 1 and 2)
Does USB-Tx and USB-Rx Communicate with System CPU?
No
USB-Tx and USB-Rx should be high during operation. Check the pattern in the path. Check the MOTHER Assy. Replace IC762, IC701, IC761.
Yes
B

Fig. 1

	IC701		**CN702**
XRST	pin 77	R951	pin 5
USB-Rx	pin 96	R955	pin 10

Fig. 2

	IC701	**IC951 (3 V → 5 V)**		**CN702**
USB-Tx	pin 95	pin 2	pin 4	pin 11

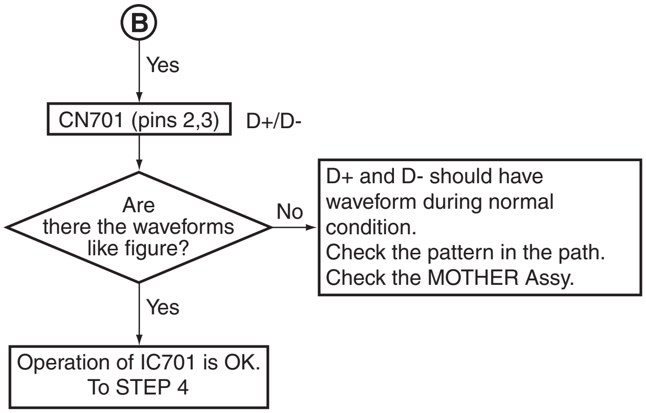
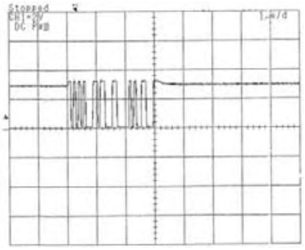
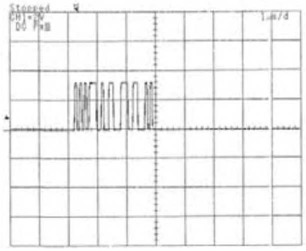

B
Yes
CN701 (pins 2,3)
D+/D-
Are there the waveforms like figure?
No
D+ and D- should have waveform during normal condition.
Check the pattern in the path.
Check the MOTHER Assy.
Yes
Operation of IC701 is OK.
To STEP 4

Fig. D+



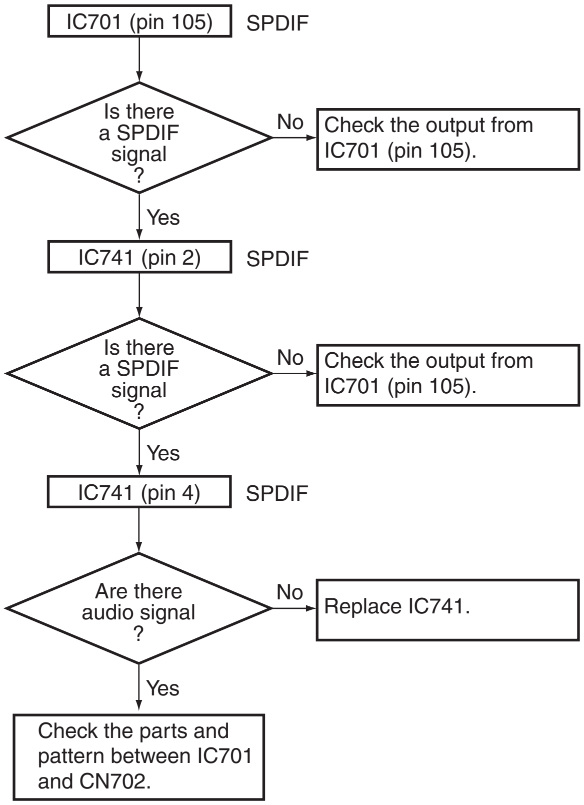
X: 1 μsec/div, Y: 2 V/div

Fig. D-



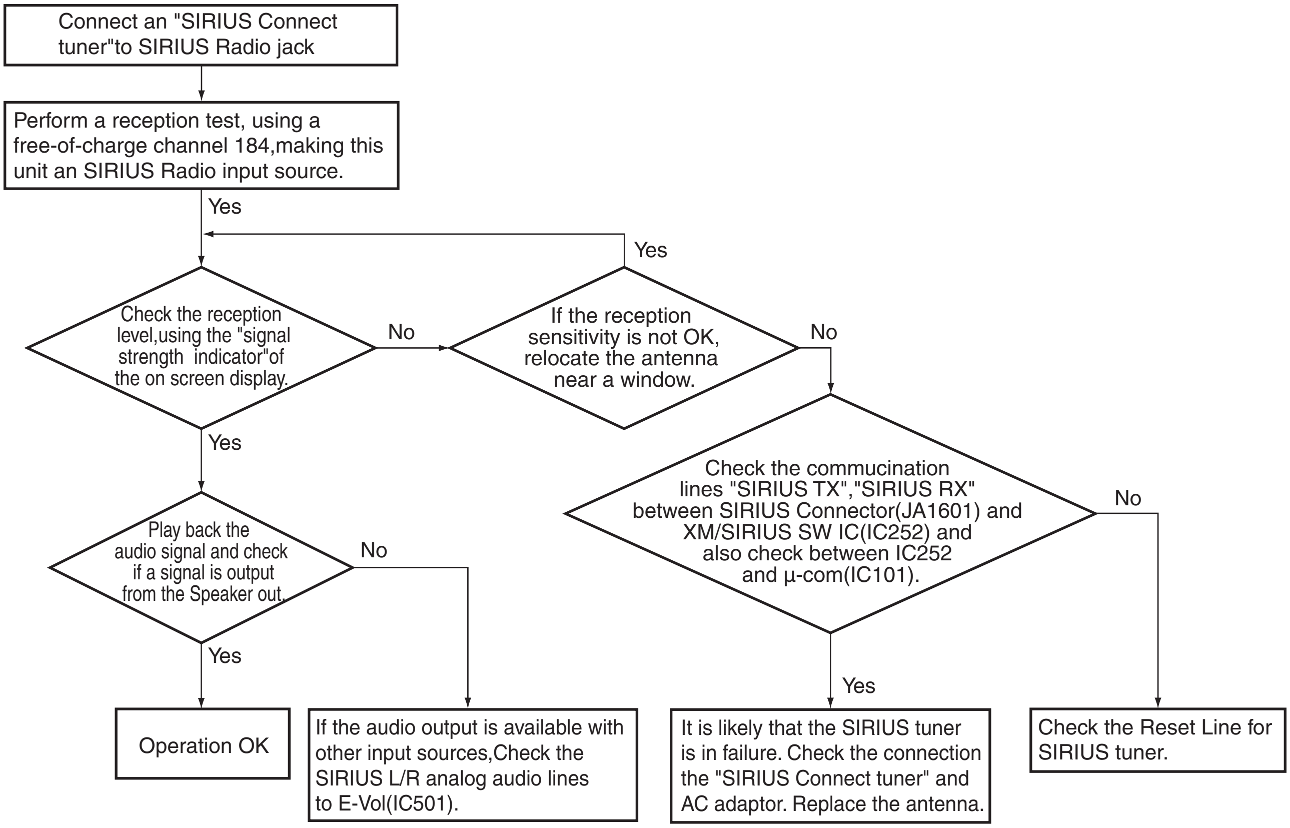
X: 1 μsec/div, Y: 2 V/div

Step 4: Audio Out check


IC701 (pin 105)
SPDIF
Is there a SPDIF signal ?
No
Check the output from IC701 (pin 105).
Yes
IC741 (pin 2)
SPDIF
Is there a SPDIF signal ?
No
Check the output from IC701 (pin 105).
Yes
IC741 (pin 4)
SPDIF
Are there audio signal ?
No
Replace IC741.
Yes
Check the parts and pattern between IC701 and CN702.

5.1.4 SIRIUS BLOCK TROUBLESHOOTING (VSX-91TXH/VSX-9120TXH Only)

Step 1 : Connectors


Connect an "SIRIUS Connect tuner"to SIRIUS Radio jack
Perform a reception test, using a free-of-charge channel 184,making this unit an SIRIUS Radio input source.
Yes
Yes
Check the reception level,using the "signal strength indicator"of the on screen display.
No
If the reception sensitivity is not OK, relocate the antenna near a window.
No
Yes
Check the commucination lines "SIRIUS TX","SIRIUS RX" between SIRIUS Connector(JA1601) and XM/SIRIUS SW IC(IC252) and also check between IC252 and µ-com(IC101).
No
Play back the audio signal and check if a signal is output from the Speaker out.
No
Yes
Yes
Operation OK
If the audio output is available with other input sources,Check the SIRIUS L/R analog audio lines to E-Vol(IC501).
It is likely that the SIRIUS tuner is in failure. Check the connection the "SIRIUS Connect tuner" and AC adaptor. Replace the antenna.
Check the Reset Line for SIRIUS tuner.

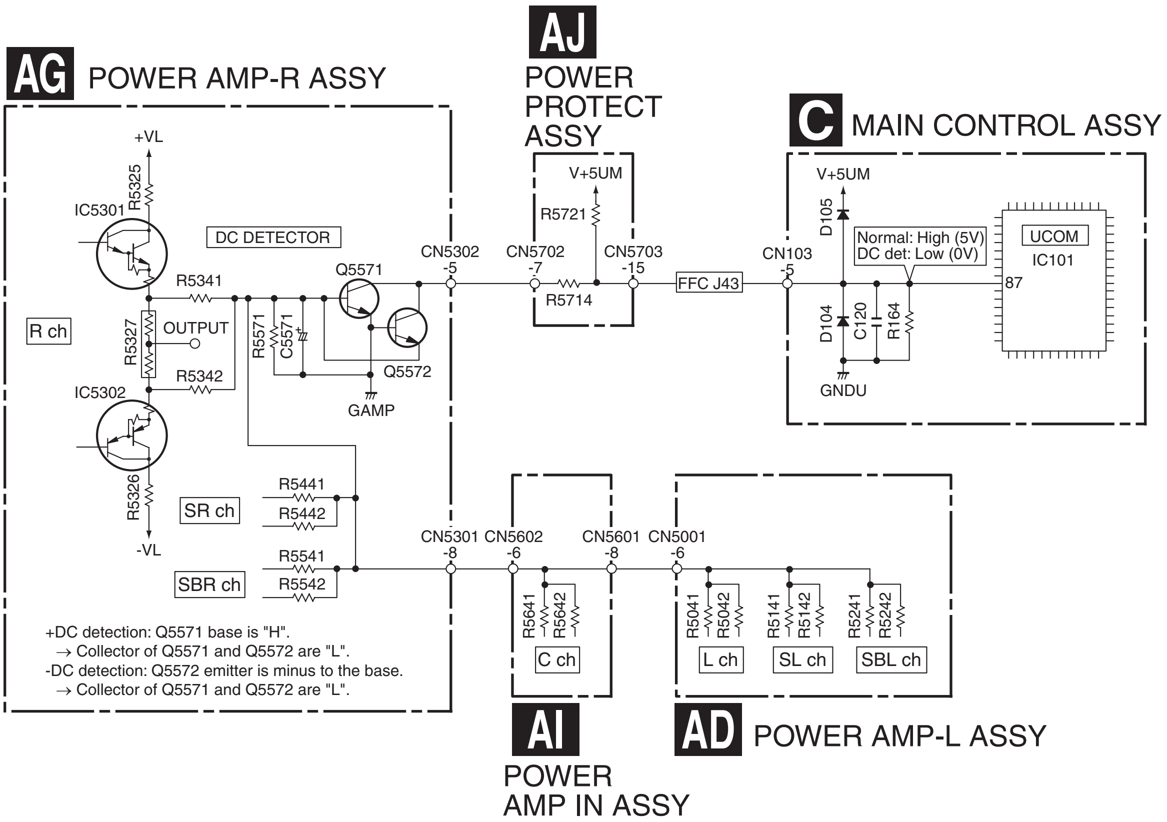
5.2 CIRCUIT DESCRIPTION

5.2.1 PROTECTION CIRCUIT SPECIFICATION

● Protection Circuit Process List

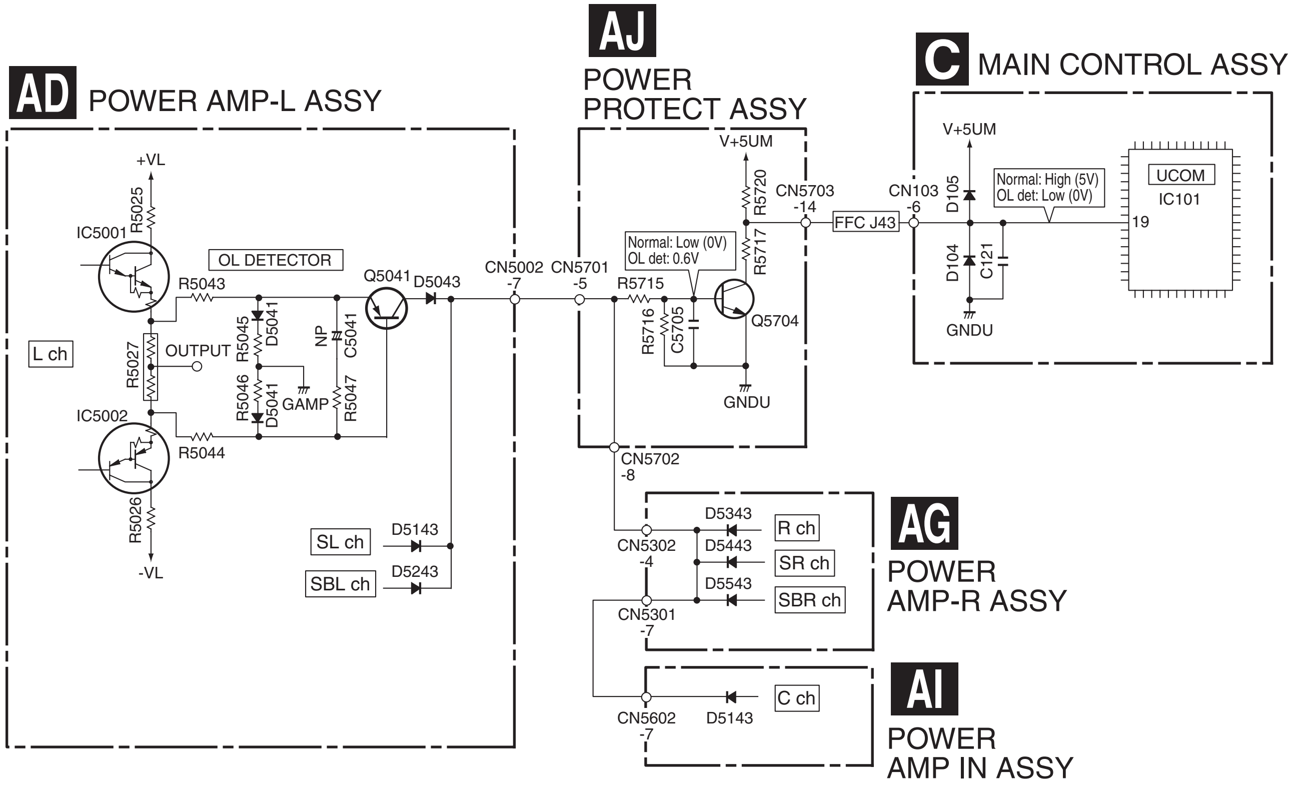
Item	Purpose	Detection Method	Process	Warning Indication	Remarks
DC detection	To detect amplifier damage (defect status) A process to protect speakers (for protection of connected external devices)	Detects when the DC_PROTECT port becomes "L". (Pin 87 of IC101)	Turns muting on and speaker relay off, then turns off the power after 3 seconds. Then flashes MCACC indicator.	Flashing "AMP ERR" for 3 seconds.	Once detected and turned the power off, input a key never again. If the DC_DET port becomes "H" within 3 seconds, the unit returns to normal condition automatically.
AMP overload	To detect overloading (abnormal status) With low-load driving or a short circuit of the speaker terminals (for protection of the amplifier)	Detects when the OL_DET port becomes "L" (checks by interrupt). (Pin 19 of IC101)	Turns muting on and speaker relay off, and immediately turns off the power. Then flashes PHASE CONTROL indicator.	None	
Overheat detection	Self reset type protection feature by temperature-rise of heat sink	Detects when the TEMP2 port becomes "H" . (Pin 44 of IC2301)	Turns muting on and speaker relay off, then turns off the power after 3 seconds.	Flashing "OVERHEAT" for 3 seconds.	If the TEMP2 port becomes "L" within 3 seconds, the unit returns to normal condition automatically.
12V trigger failure detection	To detect the shortcircuit of 12V trigger output (load more than 50mA) (for protection of the amplifier)	Detects when the 12VDET port decoms "H". (Pin 44 of IC2301)	Turns 12V trigger output to off.	Flashing "12V TRG ERR"	Continue showing warning. Release the FL indication by switching the INPUT SEL or the turns the power off.

● DC Detection Circuit


AG POWER AMP-R ASSY
AJ POWER PROTECT ASSY
C MAIN CONTROL ASSY
AI POWER AMP IN ASSY
AD POWER AMP-L ASSY
+VL
R5325
IC5301
DC DETECTOR
R5341
Q5571
R ch
R5327
OUTPUT
R5342
R5571
C5571
Q5572
GAMP
IC5302
R5326
-VL
SR ch
R5441
R5442
SBR ch
R5541
R5542
CN5302 -5
CN5702 -7
R5714
V+5UM
R5721
CN5703 -15
FFC J43
CN103 -5
D105
Normal: High (5V)
DC det: Low (0V)
UCOM
IC101
87
D104
C120
R164
GNDU
CN5301 -8
CN5602 -6
CN5601 -8
CN5001 -6
R5641
R5642
C ch
R5041
R5042
L ch
R5141
R5142
SL ch
R5241
R5242
SBL ch

+DC detection: Q5571 base is "H".
→ Collector of Q5571 and Q5572 are "L".
-DC detection: Q5572 emitter is minus to the base.
→ Collector of Q5571 and Q5572 are "L".

● OL (Over Load) Detection Circuit


AD
POWER AMP-L ASSY
AJ
POWER PROTECT ASSY
C
MAIN CONTROL ASSY
AG
POWER AMP-R ASSY
AI
POWER AMP IN ASSY
+VL
R5025
IC5001
OL DETECTOR
R5043
Q5041
D5043
L ch
R5027
OUTPUT
R5045
D5041
NP
C5041
R5046
D5041
GAMP
R5047
IC5002
R5044
R5026
-VL
SL ch
D5143
SBL ch
D5243
CN5002 -7
CN5701 -5
R5715
R5716
C5705
Normal: Low (0V)
OL det: 0.6V
V+5UM
R5720
R5717
Q5704
GNDU
CN5703 -14
CN5702 -8
FFC J43
CN103 -6
V+5UM
D105
D104
C121
GNDU
Normal: High (5V)
OL det: Low (0V)
UCOM
IC101
19
D5343
R ch
CN5302 -4
D5443
SR ch
D5543
SBR ch
CN5301 -7
CN5602 -7
D5143
C ch

6. SERVICE MODE

6.1 TEST MODE

■ Version indication

[Purpose]

The versions for various microcomputers and DSP firmware are displayed.

[How to enter/exit]

HY model:
During Standby mode, simultaneously press and hold the “STANDBY/ON” and “SOUND RETRIEVER” key for 5 seconds to enter this mode.
KU model:
During Standby mode, simultaneously press and hold the “STANDBY/ON” and “MULTI CH IN” keys for 5 seconds to enter this mode.
This mode is automatically exited when the indications of all versions have finished.

[Basic operations]

FL Display	Description of Version Indications	Duration (sec.)	Devices that can be considered generally normal, with the corresponding indications
POWER OFF ↓			
M1.000 F1.000 ↓	Mx.xxx : Main microcomputer Fx.xxx : Display microcomputer	5	Main microcomputer and display microcomputer
D1.000 H1.000 ↓	Dx.xxx : DSP microcomputer Hx.xxx : HDMI microcomputer	5	DSP microcomputer and HDMI microcomputer
f1.000 s1.000 ↓	fx.xxx : 1st DSP firmware sx.xxx : 2nd DSP firmware	5	1st DSP firmware : Flash ROM (IC106) near the DSP IC 2nd DSP firmware : Flash ROM within the DSP IC (IC201)
Normal display			

[Notes]

1. If the version indication becomes "**," a failure in communications between the corresponding microcomputers or a failure in the corresponding microcomputers is likely.
2. In this submode, the user settings will not be cleared.

■ Detected protection history

[Purpose]

The numbers of detections for various protection processes are displayed.

[How to enter/exit]

HY model:
During Standby mode, simultaneously press and hold “DVR/VCR1” and “ENTER” keys for 5 seconds to enter this mode.
KU model:
During Standby mode, simultaneously press and hold “DVR1/DVR2” and “ENTER” keys for 5 seconds to enter this mode.
This mode is automatically exited when all the indications have finished.

[Basic operations]

FL Display	Description of Indications	Duration (sec.)
POWER OFF ↓		
DC : 000 ↓	Number of DC detections	3
OVER: 010 ↓	Number of overload detections	3
CON : 002 ↓	Number of detections of cord disconnection (DC and OL DET line) (simultaneous detections of DC and OVERLOAD)	3
FAN : 002 (*) ↓	Number of detections of fan abnormalities	3
TEMP: 255 ↓	Number of detections of abnormal temperature	3
Normal display		

(*) for KU models, ”FAN : 000” is always displayed.

[Description]

When the keys are pressed, the numbers of DC detections, overload detections, detections of connectors disconnection inside unit (It is detected by both DC and OVERLOAD detections.), detections of fan abnormalities, and detections of abnormal temperature are displayed for 3 seconds each, in that order.
The maximum value of each detections is 255.

■ Error indications when an abnormality in the amplifier system is detected

[Purpose]

An error message is displayed when an abnormality in the amplifier system is detected.

[Error Messages]

FL Display	Status	Duration (sec.)
AMP ERROR	When AMP DC is detected	Flashes 3 times.
FAN STOP (HY model Only)	When stopping of the fan is detected	Flashes 3 times.
OVERHEAT	When a thermal shutdown (abnormal temperature), etc. is detected	Flashes 3 times.
12V TRG ERR KUXJ and KUXJ/CA models only	When the 12-V trigger circuit is short-circuited	Flashes
XM Power Error KUXJ and KUXJ/CA models only	The power supply of the XM antenna is abnormally	Flashes

[Description]

AMP ERROR : After a failure in the amplifier block or high DC output is detected, the shutdown process starts, then the power will be shut off. Then the MCACC LED will flash. The power cannot be turned on again. If you wish to turn on the unit after a shutdown activated by DC detection, enter Test mode, by proceeding with the steps described in "How to enter release mode" below.

FAN STOP (HY model Only) : The fan does not function.

OVERHEAT : The temperature of the amplifier is abnormally high.

(FAN STOP, OVERHEAT:) After a failure is detected, the shutdown process starts, then the power will be off. The power can be turned on again in Normal mode.

12V TRG ERR : The 12-V trigger output is short-circuited.
(KUXJ and KUXJ/CA models only)

XM Power Error : Thepower supply of the XM antenna is abnormally.
(KUXJ and KUXJ/CA models only)

[How to enter release mode]

Press and hold HY model : DVR/VCR2, KU model : VIDEO/GAME and ENTER keys on the front panel simultaneously for 5 seconds in standby mode.

7. DISASSEMBLY

Note 1: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Note 2: For performing the diagnosis shown below, the following jigs for service is required:
- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483)
- 15P board to board extension jig cable (GGD1484)
- 21P board to board extension jig cable (GGD1485)

1. Before the Power Amp Block is removed

Before the Power Amp Block is removed, discharge C3257 and C3258 on the TRANS 2-1 Assy, as indicated below.
If you don't, the IC protectors (IC3351 and IC3352) on the VH TR Assy may be open, and DC voltage may be generated at the power amplifier output, which will result in "AMP ERR."

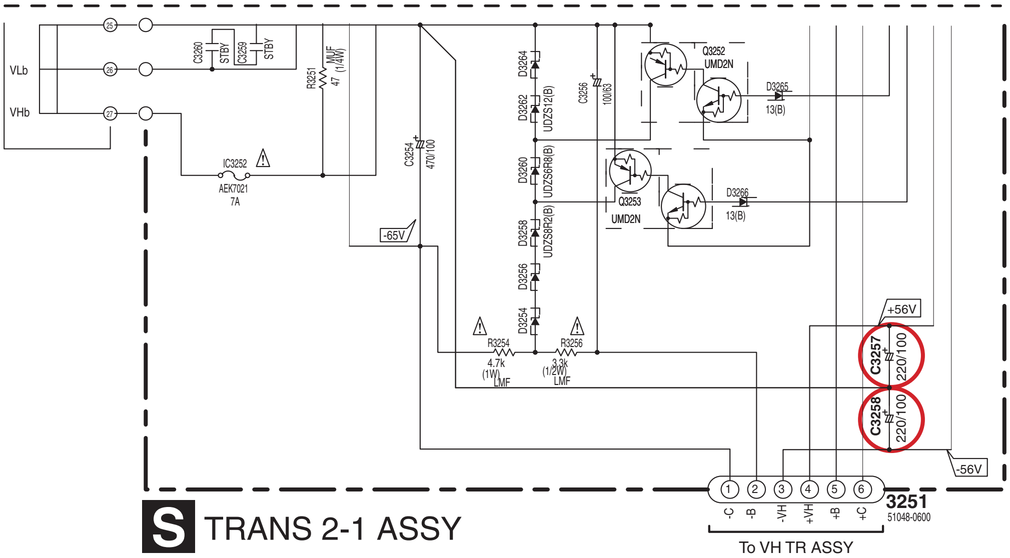
[Procedure]

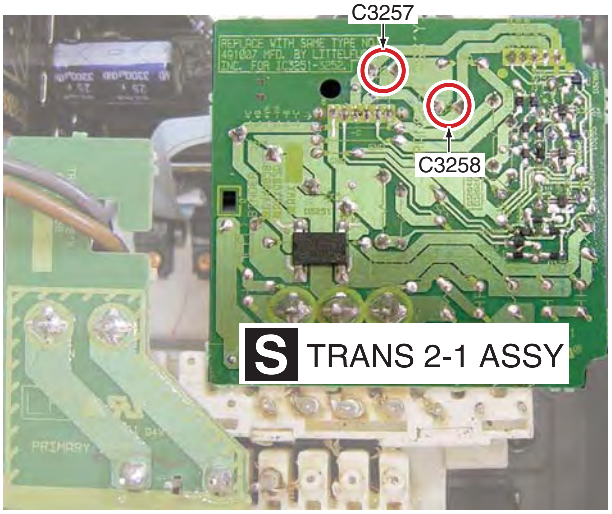
① Unplug the AC power cord.

② Discharge C3257 and C3258 on the TRANS 2-1 Assy.
Note: For discharging, use a load of 100Ω, 3W or more, to protect the IC protectors. Do NOT discharge instantly by short-circuiting.

③ Check that the voltage between the electrodes of each C3257 and C3258 is 1V or less.

④ Reassembling the Power Amp Block.

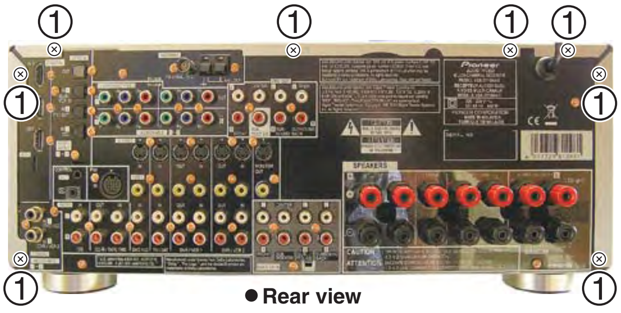

25
26
27
VLb
VHb
C3260
STBY
C3259
STBY
R3251
47
MUF
(1/4W)
IC3252
AEK7021
7A
C3254
470/100
-65V
D3264
D3262
UDZS12(B)
D3260
UDZS6R8(B)
D3258
UDZS8R2(B)
D3256
D3254
C3256
100/63
Q3252
UMD2N
D3265
13(B)
Q3253
UMD2N
D3266
13(B)
R3254
4.7k
(1W)
LMF
R3256
3.3k
(1/2W)
LMF
+56V
C3257
220/100
C3258
220/100
-56V
1 2 3 4 5 6
-C -B -VH +VH +B +C
3251
51048-0600
To VH TR ASSY
S TRANS 2-1 ASSY


C3257
C3258
S TRANS 2-1 ASSY
REPLACE WITH SAME TYPE NO.
491007 MFD. BY LITTELFUSE
INC. FOR IC3251-3252
PRIMARY

2. Disassembly

1 Bonnet

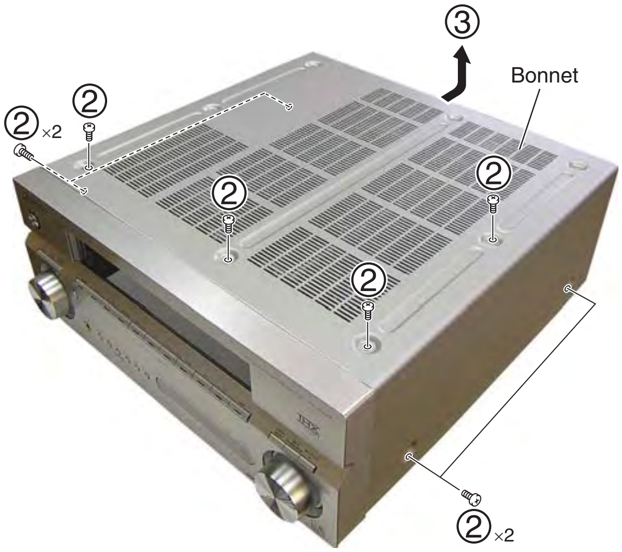
① Remove the eight screws.



● **Rear view**

② Remove the eight screws.

③ Remove the bonnet.


③
Bonnet
② ×2
②
②
②
②
② ×2

2 Power Amp Block

Caution:
Before removing the Power Amp Block, discharge C3257 and C3258 on the TRANS 2-1 Assy.
Refer to "1. Before the Power Amp Block is removed".

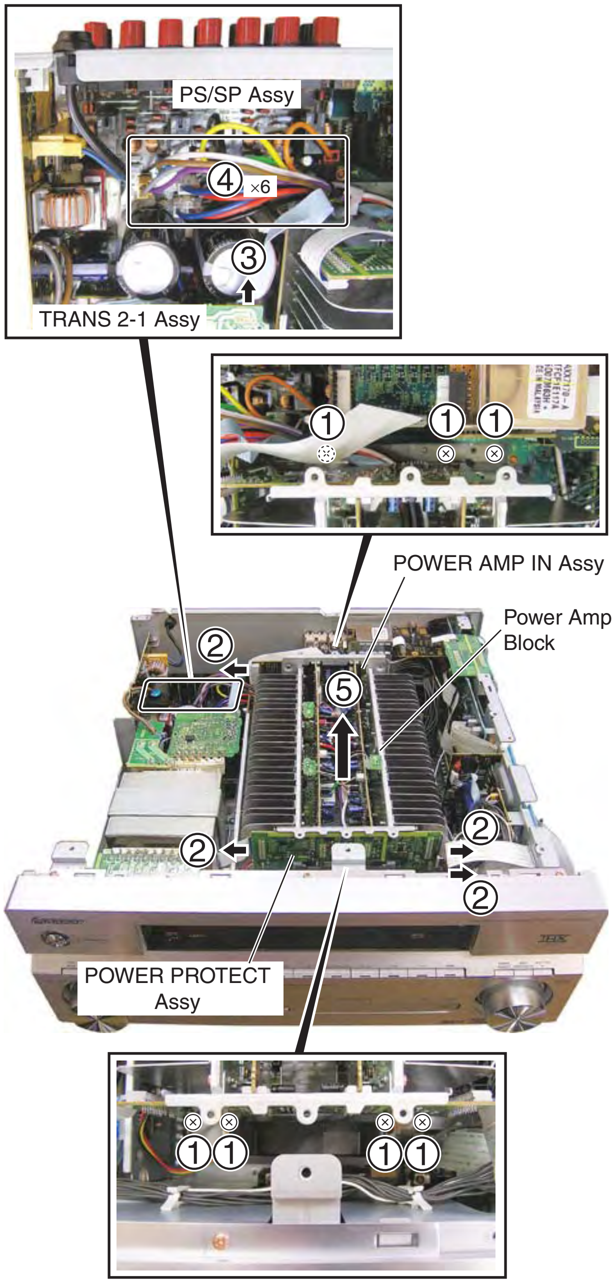
① Remove the seven screws.

② Disconnect the three flexible cables and the one connector.

③ Disconnect the one jumper wire.

④ Disconnect the six connectors.

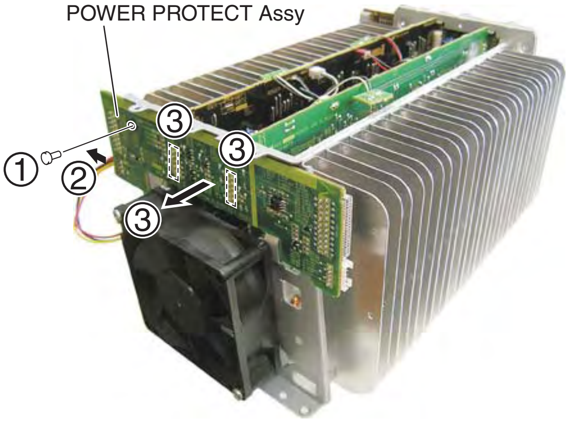
⑤ Remove the power amp block.


PS/SP Assy
④ ×6
③
TRANS 2-1 Assy
①
①
①
POWER AMP IN Assy
Power Amp Block
②
⑤
②
②
②
POWER PROTECT Assy
①
①
①
①

3 Replacing the Power Transistor

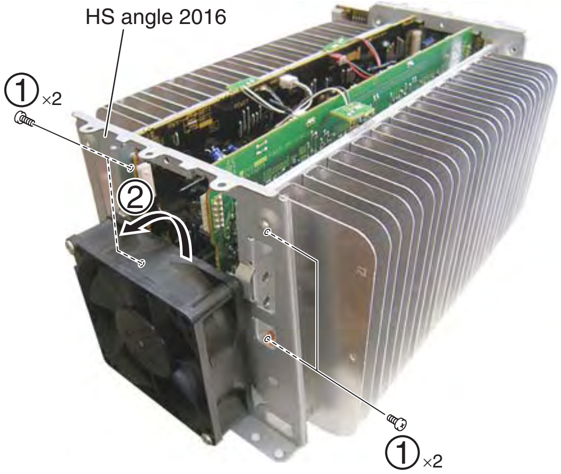
● POWER PROTECT Assy

① Remove the one nylon rivet.
② Disconnect the one connector. (VSX-LX50 only)
③ Remove the POWER PROTECT Assy by removing the two connectors.


POWER PROTECT Assy
①
②
③
③
③

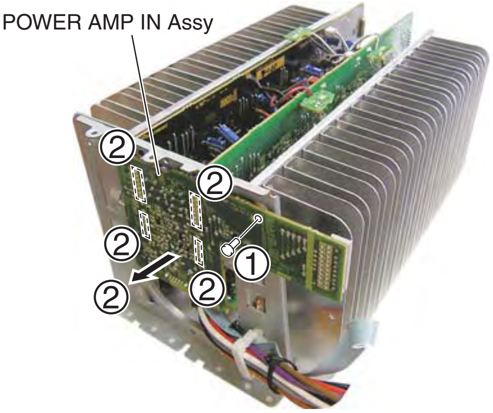
● HS Angle 2016

① Remove the four screws.
② Remove the HS angle 2016.


HS angle 2016
①×2
②
①×2

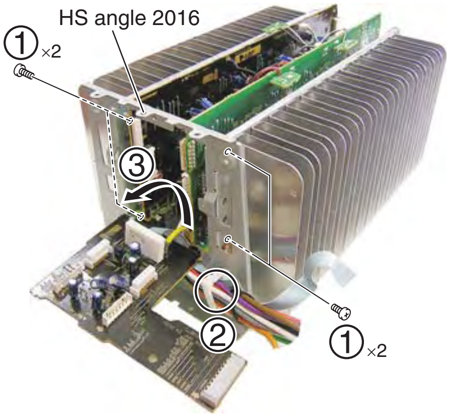
● POWER AMP IN Assy

① Remove the one nyron rivet.
② Remove the POWER AMP IN Assy by removing the four connectors.

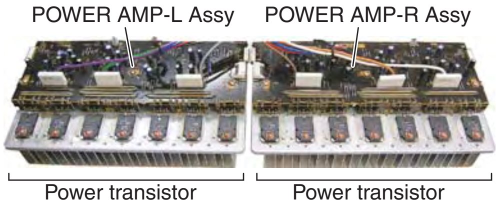

POWER AMP IN Assy
②
②
②
②
②
①

● HS Angle 2016

① Remove the four screws.
② Release the clamper.
③ Remove the HS angle 2016.


HS angle 2016
①×2
③
②
①×2

● Replacing the Power Transistor


POWER AMP-L Assy
POWER AMP-R Assy
Power transistor
Power transistor

Replace

4 Replacing the AUDIO IN Assy

● Rear Panel

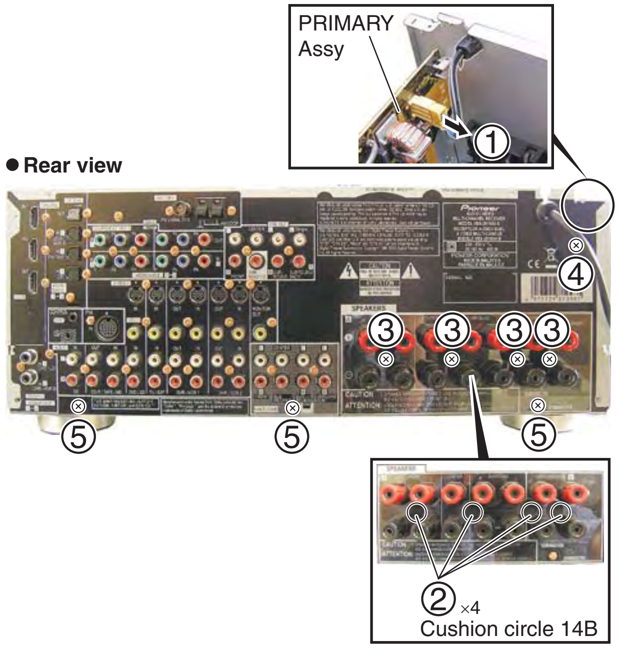
① Disconnect the one connector.

② Remove the four cushion circle 14B.

③ Remove the four screws.

④ Remove the one screw.
(KU model: Remove the three screws.)

⑤ Remove the three screws.

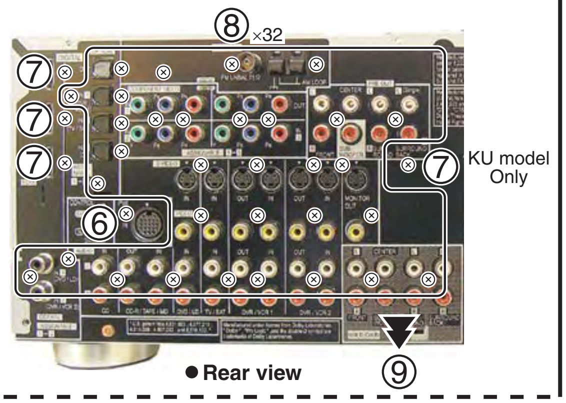

PRIMARY Assy
①
● Rear view
④
③
③
③
③
⑤
⑤
⑤
② ×4
Cushion circle 14B

⑥ Remove the one screw.

⑦ Remove the three screws.
(KU model: Remove the 4 screws.)

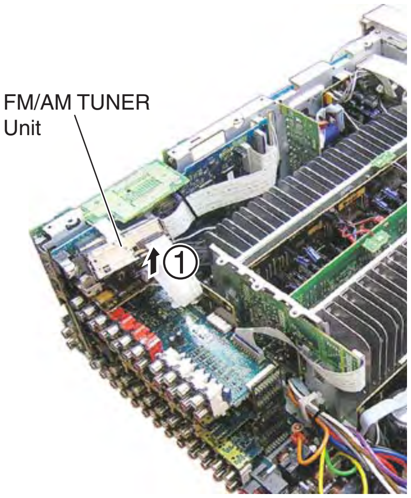
⑧ Remove the 32 screws.
(KU model: Remove the 33 screws.)

⑨ Remove the rear panel.


⑧ ×32
⑦
⑦
⑦
⑦
KU model Only
⑥
● Rear view
⑨

● FM/AM TUNER Unit

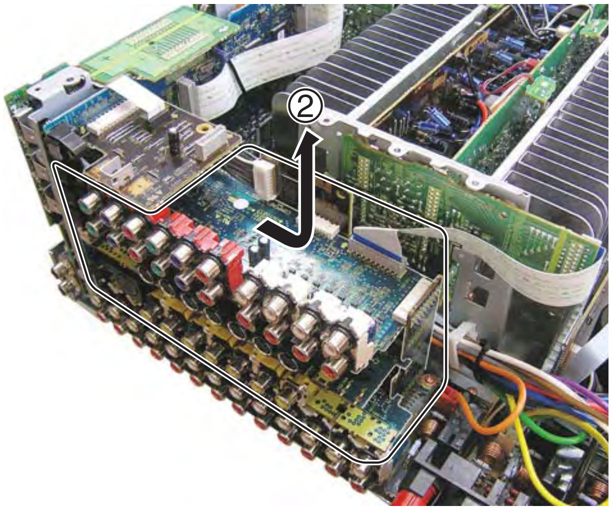
① Remove the FM/AM TUNER Unit by removing the one flexible cable.


FM/AM TUNER Unit
①

● PCB Assys

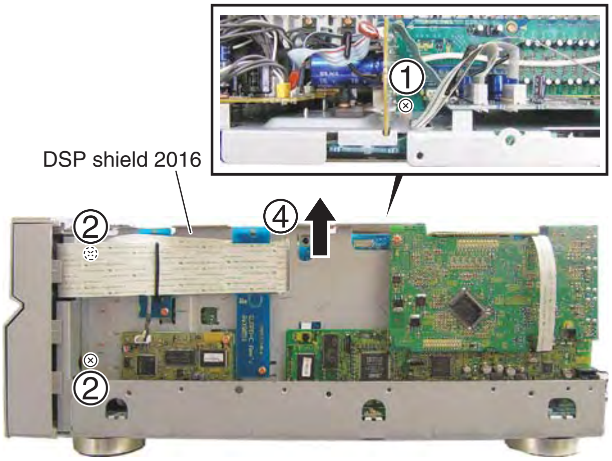
① Disconnect cables, connectors, as required.

② First remove the BRIDGE 2 Assy, then remove the COMPOSITE, S-VIDEO, COMPONENT and VIDEO CONNECT Assys.



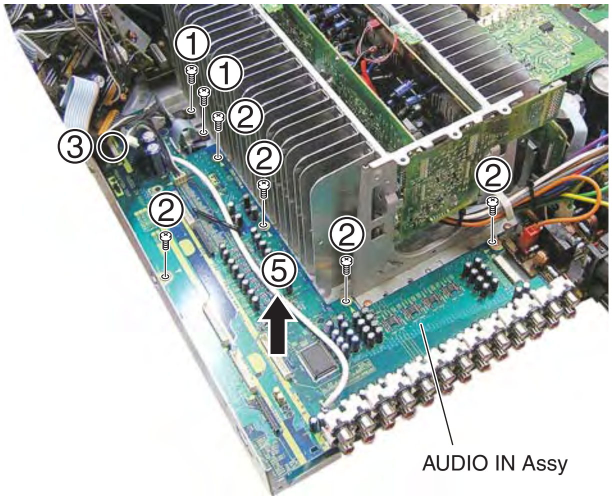
● DSP Shield Section

① Remove the one screw.
② Remove the two screws.
③ Disconnect cables, connectors, as required.
④ Remove the DSP shield 2016 with PCB Assemblies..


①
DSP shield 2016
②
④
②

● AUDIO IN Assy

① Remove the two screws.
② Remove the five screws.
③ Release the locking card spacer.
④ Disconnect cables, connectors, as required.
⑤ Remove the AUDIO IN Assy.

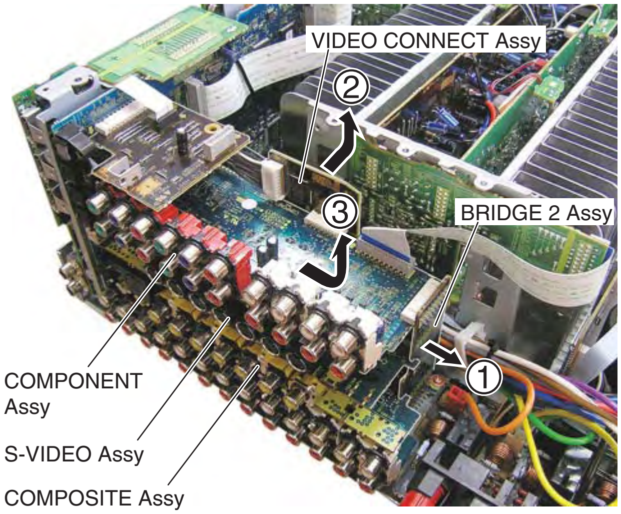

①
①
②
③
②
②
②
②
⑤
AUDIO IN Assy

3. Diagnosis

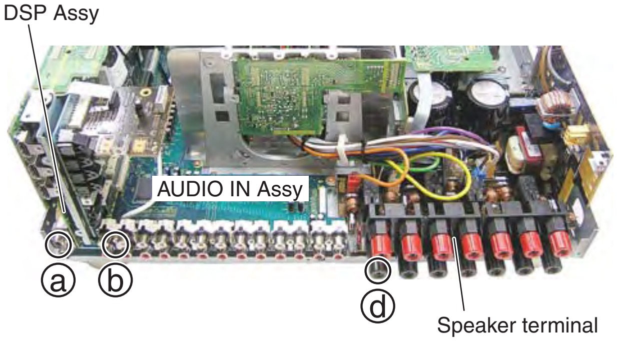
1 Preparations

❶ Remove the bonnet.
❷ Remove the rear panel.

① Remove the BRIDGE 2 Assy.
② Remove the VIDEO CONNECT Assy.
③ Remove the COMPONET, S-VIDEO, COMPOSITE Assys.


VIDEO CONNECT Assy
②
③
BRIDGE 2 Assy
①
COMPONENT Assy
S-VIDEO Assy
COMPOSITE Assy

④ Connect the earth points to chassis as follows.
ⓐ Pin jack (GND) on the DSP Assy ↔ chassis
ⓑ Pin jack (L side GND) on the AUDIO IN Assy ↔ chassis
ⓒ Pin jack (Yellow GND) on the COMPOSITE Assy ↔ chassis
ⓓ Speaker terminal (L side black) ↔ chassis


DSP Assy
AUDIO IN Assy
ⓐ
ⓑ
ⓓ
Speaker terminal

2 Diagnosis

● COMPONENT Assy

Jig cable

- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483) ×2

① Connect the three extension jig cables.

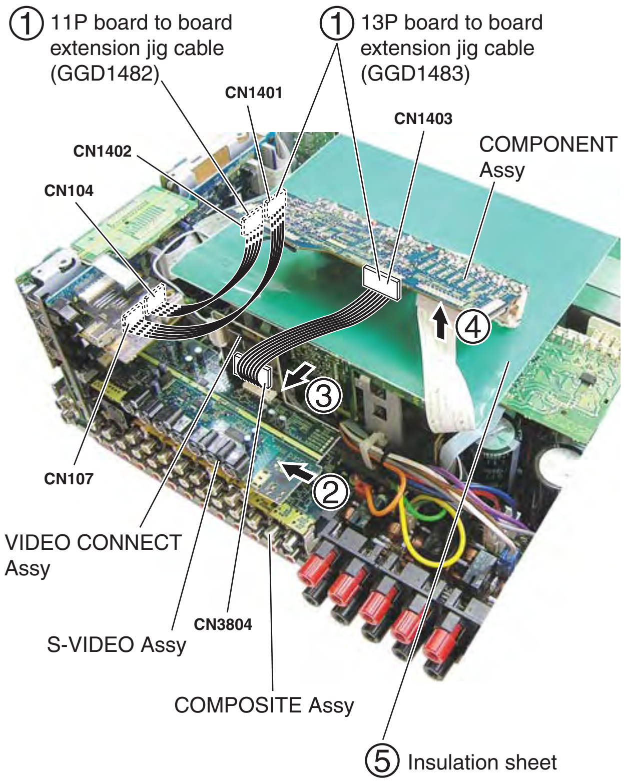
② Reassembling the S-VIDEO and COMPOSITE Assys.

③ Reassembling the VIDEO CONNECT Assy.

④ Connect the one flexible cable.

⑤ Insert the insulation sheet.

⑥ Arrange the unit as shown in the photo below.


① 11P board to board extension jig cable (GGD1482)
① 13P board to board extension jig cable (GGD1483)
CN1401
CN1403
COMPONENT Assy
CN1402
CN104
④
③
②
CN107
VIDEO CONNECT Assy
CN3804
S-VIDEO Assy
COMPOSITE Assy
⑤ Insulation sheet

Diagnosis

● S-VIDEO Assy

Jig cable

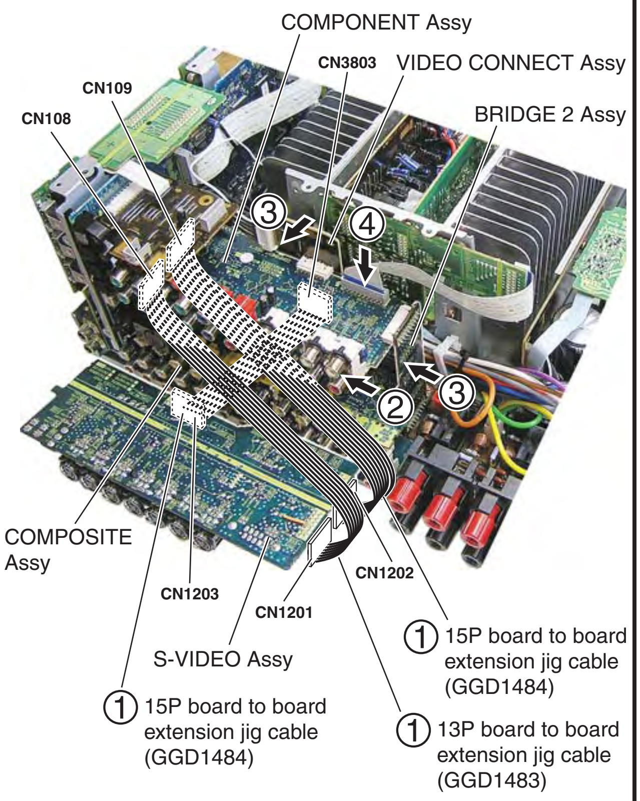
- 13P board to board extension jig cable (GGD1483)
- 15P board to board extension jig cable (GGD1484) ×2

① Connect the three extension jig cables.

② Reassembling the COMPONENT and COMPOSITE Assys.

③ Reassembling the BRIDGE 2 and VIDEO CONNECT Assys.

④ Connect the one flexible cable.


COMPONENT Assy
CN3803
VIDEO CONNECT Assy
BRIDGE 2 Assy
CN109
CN108
③
④
②
③
COMPOSITE Assy
CN1202
CN1203
CN1201
S-VIDEO Assy
① 15P board to board extension jig cable (GGD1484)
① 15P board to board extension jig cable (GGD1484)
① 13P board to board extension jig cable (GGD1483)

Diagnosis

● COMPOSITE Assy

Jig cable

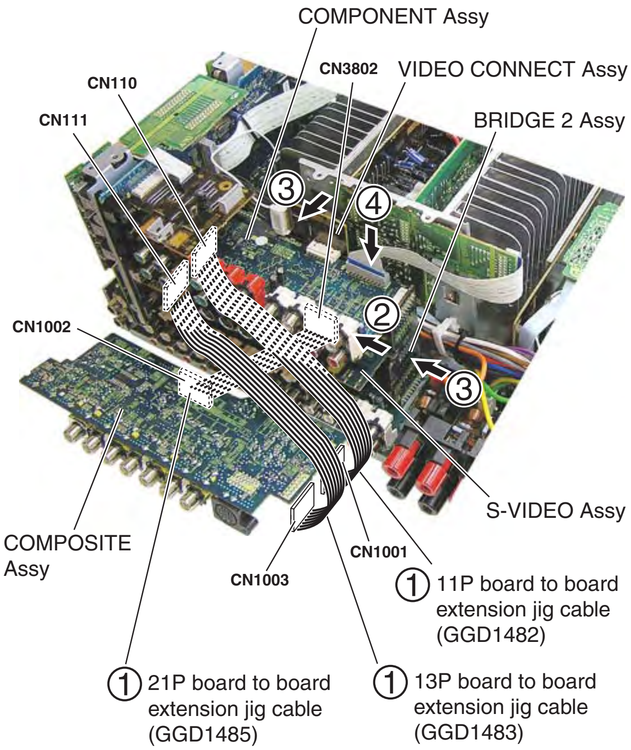
- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483)
- 21P board to board extension jig cable (GGD1485)

① Connect the three extension jig cables.

② Reassembling the COMPONENT and S-VIDEO Assys.

③ Reassembling the BRIDGE 2 and VIDEO CONNECT Assys.

④ Connect the one flexible cable.


COMPONENT Assy
CN3802
VIDEO CONNECT Assy
CN110
CN111
BRIDGE 2 Assy
③
④
②
③
CN1002
S-VIDEO Assy
COMPOSITE Assy
CN1001
CN1003
① 11P board to board extension jig cable (GGD1482)
① 21P board to board extension jig cable (GGD1485)
① 13P board to board extension jig cable (GGD1483)

Diagnosis

8. EACH SETTING AND ADJUSTMENT

8.1 ADJUSTMENT

- There is no information to be shown in this chapter.

8.2 HOW TO UPDATE FIRMWARE

■ HDMI, MAIN and DSP microcomputer

[Purpose]

Refer to this section when updating the firmware of each microcomputer is required by the service information, etc.

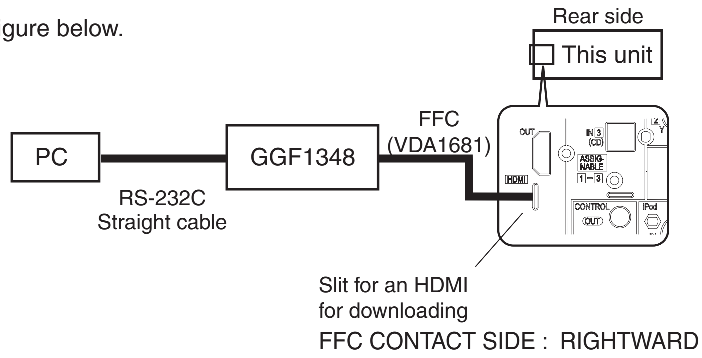
[Necessary Tools]

- PC with RS232C port
- RS-232C straight cable (9pin female ↔ 25pin male)
- RS-232C cross cable (9pin female ↔ 9pin female)
- RS-232C Interface jig : GGF1348
- 7 pin FFC : VDA1681
- Updating program : UFU.exe
- Firmware file : “.mot” file

[Connections for updating HDMI ucom]

- All models -

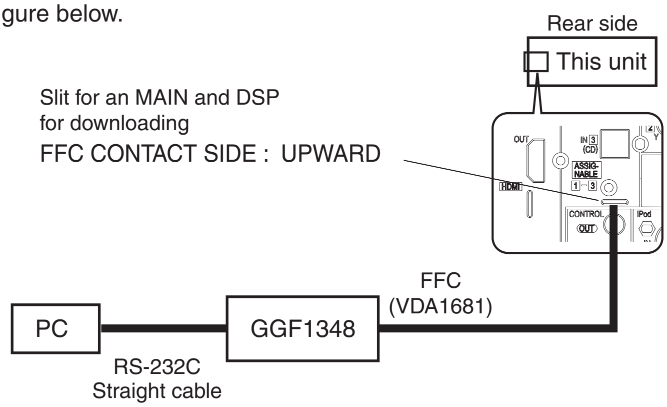
Connect as shown in the figure below.


Rear side
This unit
PC
GGF1348
FFC
(VDA1681)
RS-232C
Straight cable
OUT
IN 3
(CD)
ASSIG-
NABLE
1 — 3
HDMI
CONTROL
OUT
iPod
Slit for an HDMI
for downloading
FFC CONTACT SIDE : RIGHTWARD

[Connections for updating MAIN and DSP ucom]

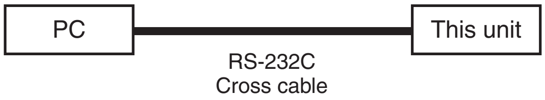
- HY model -

Connect as shown in the figure below.


Rear side
This unit
Slit for an MAIN and DSP
for downloading
FFC CONTACT SIDE : UPWARD
OUT
IN 3
(CD)
ASSIG-
NABLE
1 — 3
HDMI
CONTROL
OUT
iPod
FFC
(VDA1681)
PC
GGF1348
RS-232C
Straight cable

- KU models -

Connect as shown in the figure below.


PC
This unit
RS-232C
Cross cable

[Note]

Do NOT disconnect the AC power cords of this unit and the PC during a downloading.

[Procedures]

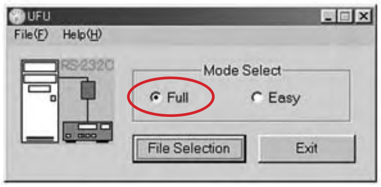
1. Set the main volume level to "---dB" then turn off the unit (Standby mode).
2. Connect the PC and the unit as shown in "Connections".
3. **HDMI ucom:**
   - HY model
     Simultaneously press and hold the ENTER and FM/AM keys for about 5seconds.
   - KU models
     Simultaneously press and hold the ENTER and XM keys for about 5seconds.

   The unit is turned on and "HDMI DOWNLOAD" is displayed.

   MAIN ucom:
   Simultaneously press and hold the ENTER and HDMI keys for about 5seconds.
   The unit is turned on and "MAIN DOWNLOAD" is displayed.

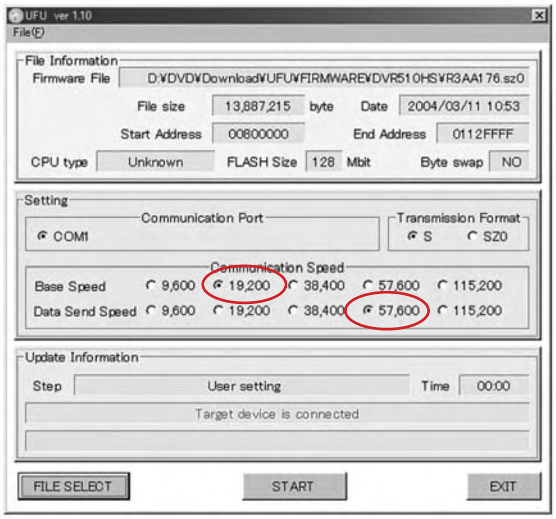
   DSP ucom:
   - HY model
     Simultaneously press and hold the ENTER and USB keys for about 5seconds.
   - KU models
     Simultaneously press and hold the ENTER and SIRIUS keys for about 5seconds.

   The unit is turned on and "DSPM DOWNLOAD" is displayed.
4. Double-click the "UFU.exe".
5. Check that "Full" is selected in Mode Select.



Mode Select
● Full ○ Easy

6. Select the firmware file (.mot file) for updating each ucom.
   Note: Do NOT download the firmware file for other ucom.
7. Select the communication speed.
   - Basic speed: 19200
   - Data transfer speed: 57600



File Information
Firmware File: D:¥DVD¥Download¥UFU¥FIRMWARE¥DVR510HS¥R3AA176.sz0
File size: 13,887,215 byte
Date: 2004/03/11 10:53
Start Address: 00800000
End Address: 0112FFFF
CPU type: Unknown
FLASH Size: 128 Mbit
Byte swap: NO

Setting
Communication Port: ● COM1
Transmission Format: ● S ○ SZ0
Communication Speed
Base Speed: ○ 9,600 ● 19,200 ○ 38,400 ○ 57,600 ○ 115,200
Data Send Speed: ○ 9,600 ○ 19,200 ○ 38,400 ● 57,600 ○ 115,200

Update Information
Step: User setting
Time: 00:00
Target device is connected

8. Click the "START" button.
9. **HDMI ucom**: "Completed" is displayed on the "UFU.exe" window about 1 minute later.
   MAIN, DSP ucom: "Completed" is displayed on the "UFU.exe" window about 3 minutes later.
10. Disconnect then reconnect the AC power cord of the unit. If the unit is not reset, retry from step2.
11. Reset the AV receiver.

Note: Note that all the data the receiver retains will be cleared.

Resetting the receiver

Use this procedure to reset all the receiver's settings to the factory default. Use the front panel controls to do this.

1 Switch the receiver into standby.

2 While holding down the front panel TONE button, press and hold STANDBY/ON for about three seconds.

The display shows **RESET?**.

3 Press the front panel ENTER button.

The display shows **RESET OK?**.

4 Press SETUP to confirm.

OK appears in the display to indicate that the receiver has been reset to the factory default settings.

12. Check the version.
    Please refer to "Version indication" (p72) and check that the version has been changed to a new one.

DSP FLASH ROM

[Purpose]

Refer to this section when updating the DSP flash ROM firmware is required by the service information, etc.
It is able to update the DSP flash ROM firmware by playing back a CD-R which is recorded a DSP firmware (.wav file) via digital connection.

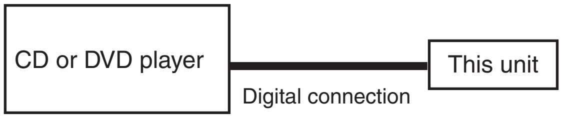
[Necessary Tools]

- DVD player
- Coaxial cable or Optical cable
- Update disc (CD-R disc)

Note:
Please use DVD player based on MTK system (DV-270, 370, 373, 575K, 280, 380, 383, etc.),Mitsubishi system (DV-59AVi, 868AVi, S969AVi, 668AVi, etc.) and Fujitsu system (DV-343, 444, 545, etc.).
DO NOT use DVD player based on ST system (DV-353, 454, 250, 400, 555K, 260, 363, 464, 466, 563, etc.).
The factory confirmed that DVD players based on ST system cannot send the correct data to the receiver.
You can check the base system of our DVD players on the firmware version list at PSN web (Niis).

[Connections]

Connect as shown in the figure below.



[Preparations]

Burn the DSP flash ROM firmware (.wav file) to a CD-R disc using commercially available burning software.
It is necessary to select the writing format to "For music player", not "For PC data".
Note:
Depending on a burning software, data on a CD-R may not be worked for updating the DSP flash ROM.
If the HDMI indicator does not flash when playing back a update disc, the disc is not able to use for updating.
Burn the DSP flash ROM firmware to a CD-R disc, using other burning software.

[Note]

- Do NOT disconnect the AC power cords of this unit and the CD/DVD player during a updating.
- "OK" is appeared on the FL display when updating is completed.
  If the "OK" is not appeared, updating has not been completed correctly. Be sure to perform the updating procedures again.

[Procedures]

1. Reset the receiver.
   Note: Note that all the data the receiver retains will be cleared.

Resetting the receiver
Use this procedure to reset all the receiver’s settings to the factory default. Use the front panel controls to do this.

1 Switch the receiver into standby.

2 While holding down the front panel TONE button, press and hold STANDBY/ON for about three seconds.
The display shows **RESET?**.

3 Press the front panel ENTER button.
The display shows **RESET OK?**.

4 Press SYSTEM SETUP to confirm.
OK appears in the display to indicate that the receiver has been reset to the factory default settings.

2. Check the version of the DSP flash ROM (1st DSP) and the DSP ucom.
   Please refer to "Version indication" (p72).

3. Connect a CD or DVD player
   (1) Connect the CD or DVD player for updating to any digital input jack of this unit.
   (2) Select the input source to the connected source by pressing input source key.

[Procedures]

4. Confirm that the digital input signal is locked on the AV receiver.
   (1) Play back the update disc on the CD/DVD player.
   (2) Set the signal select setting of the AV receiver to the "Auto" then confirm that the Signal Select indicator is Digital.

5. Enter the DSP flash ROM updating mode.
   (1) Skip to the beginning (time:0:00) of the first track of the update disc and set to Pause.
   (2) Set the main volume level of the AV receiver to "---dB" then turn off the unit (Standby mode).
   (3) Simultaneously press and hold the ENTER and iPod keys for about 5seconds.
   The unit is turned on and "DSPF DOWNLOAD" is displayed.

6. Play back the first track of the update disc.
   (1) Release Pause mode of the CD/DVD player and start to play back the DSP update program stream.
   (2) After 5-10 seconds, the HDMI indicator starts flashing. Be sure to check it.
   Flashing of the HDMI indicator means that the unit is receiving a correct streem and the updating is in progress.

   Note:
   Do NOT turn off the unit while the HDMI indicator is flashing. If the unit is turned off, be sure to go back to Step 5.
   (As the Flash ROM goes into unusual status if the power is off during updating, the unit may not start properly.)
   Even in such a case, you can restore the unit by performing Steps 5 to 8.

7. Wait until "OK" is appeared on the FL display.
   (1) It takes about 2 minutes for updating.
   (2) After confirming the "OK", stop or pause the CD/DVD player and wait for 5 seconds then turn off the power of the AV receiver (Standby mode).

8. Check the version of the DSP flash ROM (1st DSP).
   Please refer to "Version indication" (p72) and check that the version has been changed to a new one.

■ USB (HY model only)

[Purpose]

Refer to this section when updating the USB firmware is required by the service information, etc.
It is able to update the USB firmware by using USB flash memory.

[Necessary Tools]

- USB Flash Memory which is saved the firmware file ("player.rom" file).

Note:
In rare cases, it is not able to update the firmware depending on the type of USB flash memory.
In such a case, try to use other model of USB flash memory.

[Procedures]

1. Turn on the unit then press and hold "SOUND RETRIEVER" and "ENTER" key for about 5sec.

2. "USB" is appeared on the FL display.

3. "TESTMODE" is appeared on the FL display.

4. "CORE*.**" is appeared on the FL display. (*.** : F/W version No.)

5. Connect the USB flash memory which is saved the firmware file ("player.rom" file).

6. "UPDT" is displayed on the FL display.

7. Wait until "FINISHED" is appeared on the FL display.

8. Disconnect the USB flash memory then set the function setting to anything other than USB.

9. Turn off the unit (Standby mode).

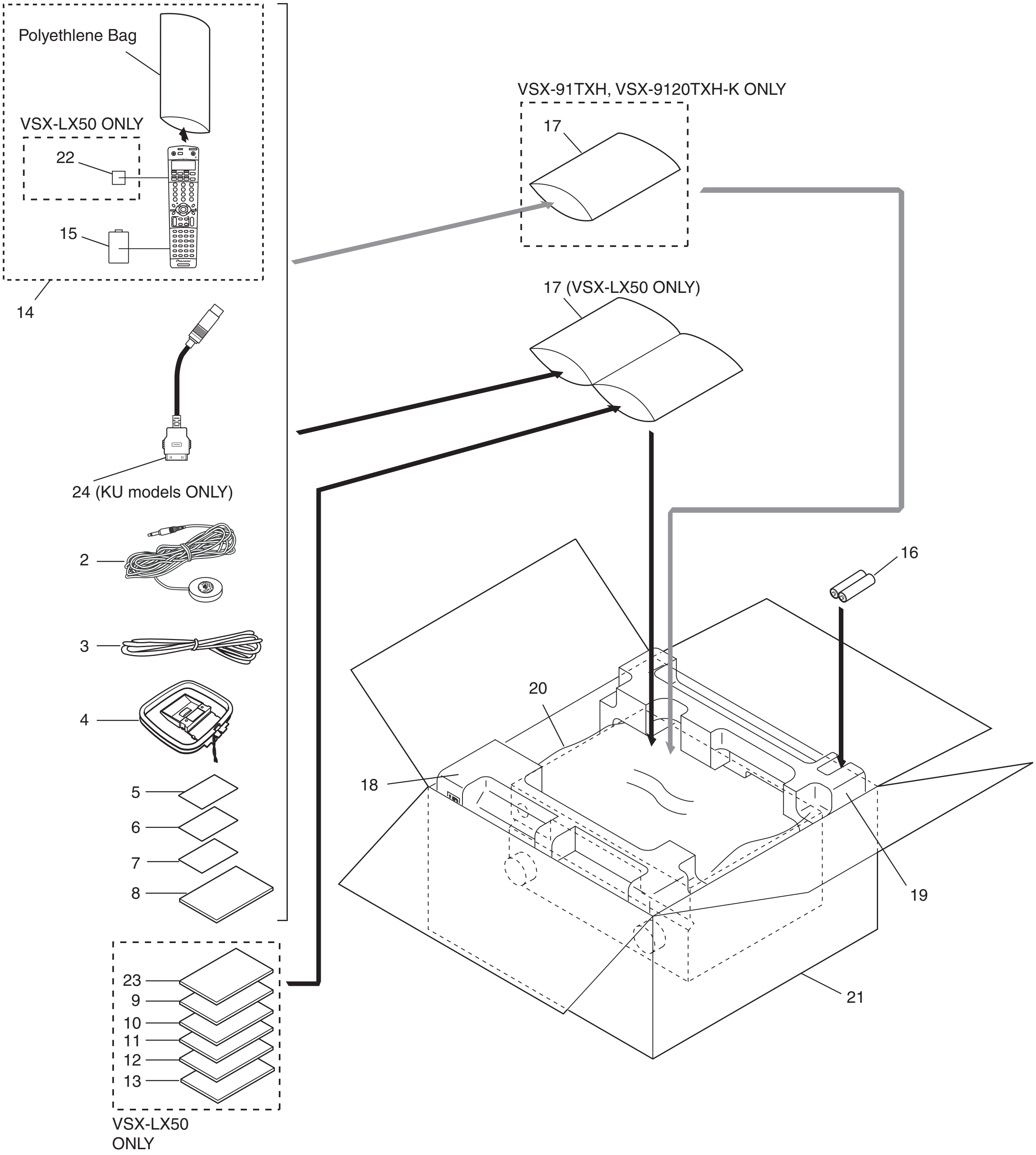
Note:

- Do NOT reconnect the USB flash memory which is saved the "player.rom" file.
- Do NOT change the function setting or turn off the power during step 5 through 7.
  If you do, the updating is failed and it is required to replace the USB flash ROM on the USB module.

9. EXPLODED VIEWS AND PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on product are used for disassembly.*
● *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

9.1 PACKING


Polyethlene Bag
VSX-LX50 ONLY
22
15
14
VSX-91TXH, VSX-9120TXH-K ONLY
17
17 (VSX-LX50 ONLY)
24 (KU models ONLY)
2
3
4
5
6
7
8
16
20
18
19
21
23
9
10
11
12
13
VSX-LX50
ONLY

(1) PACKING SECTION PARTS LIST

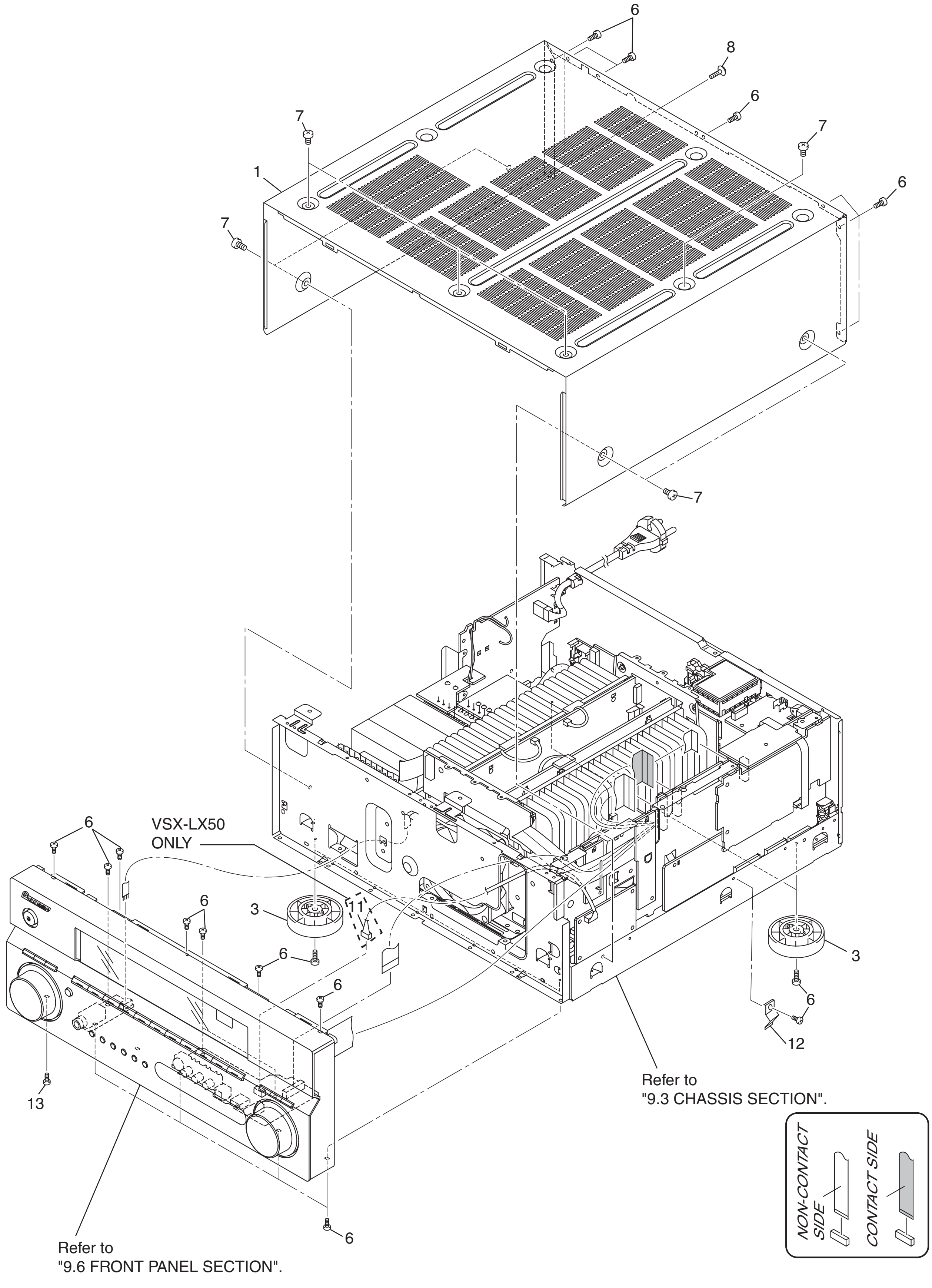
Mark	No.	Description	Part No.
	1	• • • • •	
	2	Setup Microphone (for Auto MCACC setup)	APM7008
	3	FM Wire Antenna	ADH7030
	4	AM Loop Antenna	ATB7013
NSP	5	Warranty Card	See Contrast table (2)
	6	Caution Sheet(Spanish/English)	ARM7083
	7	Disclaimer	See Contrast table (2)
	8	Operating Instructions (English)	See Contrast table (2)
	9	Operating Instructions (French)	See Contrast table (2)
	10	Operating Instructions (German)	See Contrast table (2)
	11	Operating Instructions (Italian)	See Contrast table (2)
	12	Operating Instructions (Spanish)	See Contrast table (2)
	13	Operating Instructions (Dutch)	See Contrast table (2)
	14	Remote Control Unit	See Contrast table (2)
	15	Battery Cover	XZN3140
NSP	16	Dry Cell Battery AA/LR6	VEM1031
NSP	17	Polyethylene Bag	See Contrast table (2)
	18	Front Pad	AHA7456
	19	Rear Pad	AHA7457
	20	Packing Sheet	RHC1023
	21	Packing Case	See Contrast table (2)
	22	LABEL (WEEE)	See Contrast table (2)
	23	Operating Instructions (Russian)	See Contrast table (2)
	24	Audio Control Cable for iPod	See Contrast table (2)

(2) CONTRAST TABLE

VSX-LX50/HYXJ5, VSX-91TXH/KUXJ/CA and VSX-9120TXH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX50/ HYXJ5	VSX-91TXH/ KUXJ/CA	VSX-9120TXH-K/ KUXJ
NSP	5	Warranty Card	ARY7065	ARY7007	ARY7045
	7	Disclaimer (English/French/German/Italian/ Spanish/Dutch)	XRM3010	Not used	Not used
	7	Disclaimer (English/French)	Not used	XRM3008	XRM3008
	8	Operating Instructions (English)	ARB7371	ARB7369	ARB7370
	9	Operating Instructions (French)	ARC7728	Not used	Not used
	10	Operating Instructions (German)	ARC7729	Not used	Not used
	11	Operating Instructions (Italian)	ARC7730	Not used	Not used
	12	Operating Instructions (Spanish)	ARC7731	Not used	Not used
	13	Operating Instructions (Dutch)	ARC7732	Not used	Not used
	14	Remote Control Unit	AXD7491	AXD7490	AXD7497
NSP	17	Polyethylene Bag	AHG7132	AHG7117	AHG7117
	21	Packing Case LX50HY	AHD8525	Not used	Not used
	21	Packing Case 91KU	Not used	AHD8523	Not used
	21	Packing Case 9120KKU	Not used	Not used	AHD8524
	22	LABEL (WEEE)	ARW7322	Not used	Not used
	23	Operating Instructions (Russian)	ARC7767	Not used	Not used
	24	Audio Control Cable for iPod	Not used	XDE7025	XDE7025

9.2 EXTERIOR SECTION


6
8
6
7
7
1
6
7
7
VSX-LX50
ONLY
6
6
3
11
6
6
3
6
12
13
6
NON-CONTACT SIDE
CONTACT SIDE

Refer to
"9.3 CHASSIS SECTION".

Refer to
"9.6 FRONT PANEL SECTION".

(1) EXTERIOR SECTION PARTS LIST

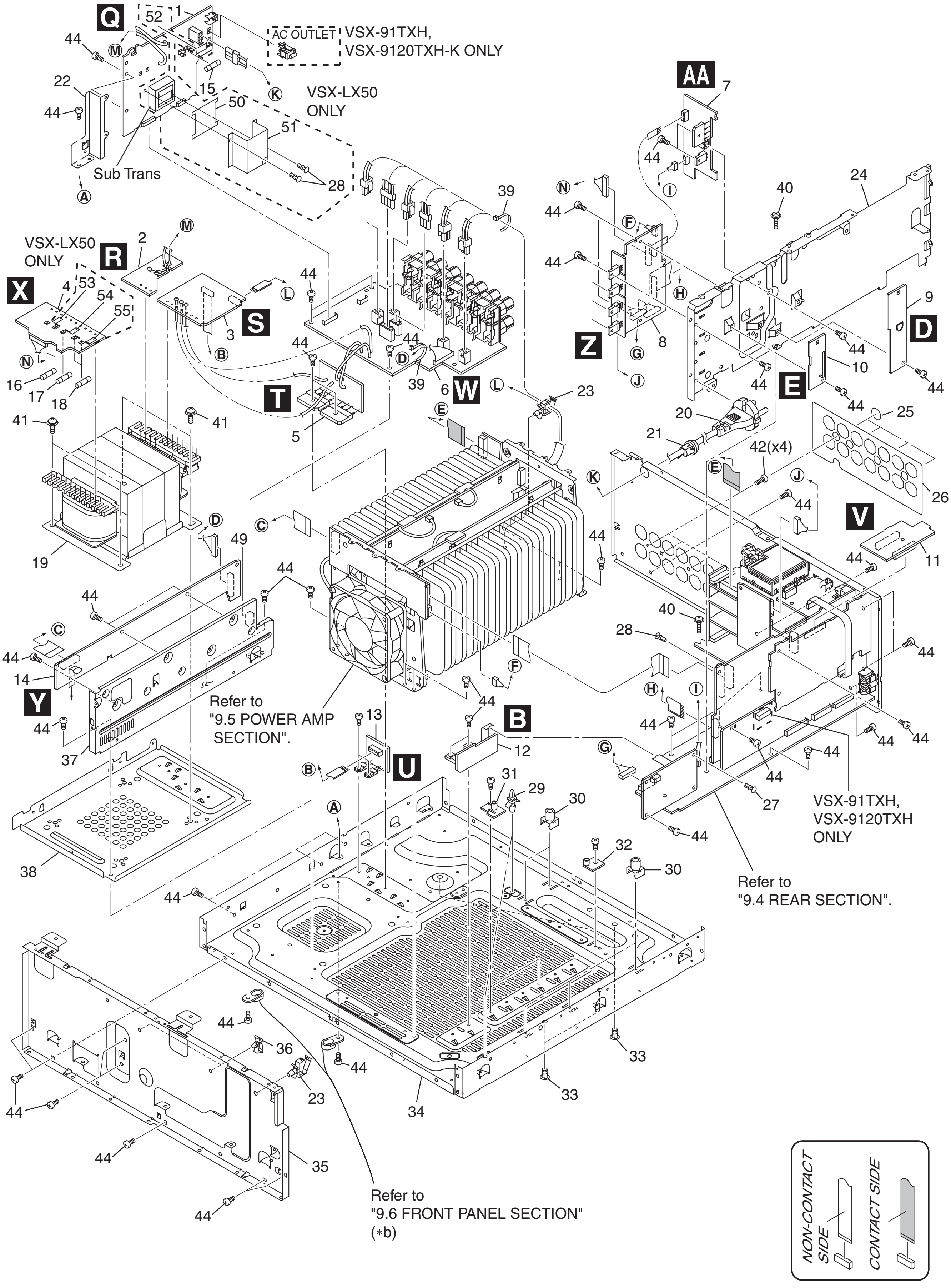
Mark	No.	Description	Part No.
	1	Bonnet 81B	AZN8021
	2	• • • • •	
	3	Insulator	See Contrast table (2)
	4	• • • • •	
	5	• • • • •	
	6	Screw	BBZ30P080FCC
	7	Screw	BCZ40P060FTB
	8	Screw	IBP30P090FCC
	9	• • • • •	
	10	• • • • •	
	11	4P Shielded Cable	See Contrast table (2)
	12	Earth Spring	ABH7245
	13	Screw	BBT30P080FNI

(2) CONTRAST TABLE

VSX-LX50/HYXJ5, VSX-91TXH/KUXJ/CA and VSX-9120TXH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX50/ HYXJ5	VSX-91TXH/ KUXJ/CA	VSX-9120TXH-K/ KUXJ
	3	Insulator	DXA1904	AMR7198	PNW2766
	11	4P Shielded Cable	XDX3028	Not used	Not used

9.3 CHASSIS SECTION


Q
52
1
44
M
AC OUTLET
VSX-91TXH,
VSX-9120TXH-K ONLY
22
15
K
VSX-LX50
ONLY
50
51
44
Sub Trans
28
A
AA
7
44
I
N
39
24
40
44
F
VSX-LX50
ONLY
2
M
R
X
4
53
54
55
44
3
S
L
B
44
D
44
H
9
D
Z
8
44
G
N
16
17
18
44
39
6
W
L
23
J
44
E
10
44
T
41
41
5
E
20
21
25
42(x4)
E
K
J
26
44
19
D
C
49
44
V
44
11
44
44
C
44
14
Y
44
37
40
28
44
F
H
I
Refer to
"9.5 POWER AMP
SECTION".
44
13
B
12
G
44
44
44
44
44
44
27
B
U
31
29
30
A
32
30
VSX-91TXH,
VSX-9120TXH
ONLY
44
38
Refer to
"9.4 REAR SECTION".
44
44
36
44
23
33
33
34
44
44
35
44
Refer to
"9.6 FRONT PANEL SECTION"
(*b)
NON-CONTACT
SIDE
CONTACT SIDE

(1) CHASSIS SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	PRIMARY Assy	See Contrast table (2)
	2	TRANS 1 Assy	AWX9038
	3	TRANS 2-1 Assy	See Contrast table (2)
	4	TRANS 2-2 Assy	AWX9062
	5	DIODE 1 Assy	AWX9060
	6	PS/SP Assy	See Contrast table (2)
	7	DC/DC Assy	AWX9015
	8	LOCAL P-SUPPLY Assy	See Contrast table (2)
	9	GUARD-C Assy	AWX8826
	10	GUARD-F Assy	AWX8825
	11	BRIDGE 1 Assy	AWX9078
	12	12V-REG Assy	AWX8824
	13	VH TR Assy	AWX9061
	14	TRANS SIDE Assy	AWX9056
⚠	15	Fuse (FU1)	See Contrast table (2)
⚠	16	Fuse (FU7,FU8)	See Contrast table (2)
⚠	17	Fuse (FU4)	See Contrast table (2)
⚠	18	Fuse (FU5,FU6)	See Contrast table (2)
⚠	19	Power Transformer (T1501)	See Contrast table (2)
⚠	20	AC Power Cord	See Contrast table (2)
	21	Cord Stopper	See Contrast table (2)
	22	Primary Angle 56	ANG7526
NSP	23	Wire Saddle	DEC1450
	24	DSP Shield 2016	ANG7546
	25	Cushion Circle 14B	AED7081
	26	SP Sheet 2016	AEC7560
	27	Nyron Rivet	AEC7408
	28	Nyron Rivet	AEC7406
	29	Locking Card Spacer	PNW2917
	30	PCB Mold	AMR2534
	31	Inter Holder A	AMR7500
	32	Inter Holder B	AMR7501
	33	Card Spacer	DNK2769
NSP	34	Under Base 2016	ANA7189
NSP	35	Panel Stay 2016	AND7082
	36	Side Clamp	DEC2007
	37	Under Beam V1	ANG7478
NSP	38	Trans Frame 74	ANG7539
NSP	39	Binder	ZCA-BK1
	40	Screw 3x15	ABA7100
	41	Screw	ABA7109
	42	Screw	BBT30P100FCC
	44	Screw	BBZ30P080FCC
	49	Bridge Spacer	AEB7201
	50	Primary Barrier	See Contrast table (2)
	51	Shield Case	See Contrast table (2)
NSP	52	Fuse Card	See Contrast table (2)
NSP	53	Fuse Card	See Contrast table (2)
NSP	54	Fuse Card	See Contrast table (2)
NSP	55	Fuse Card	See Contrast table (2)

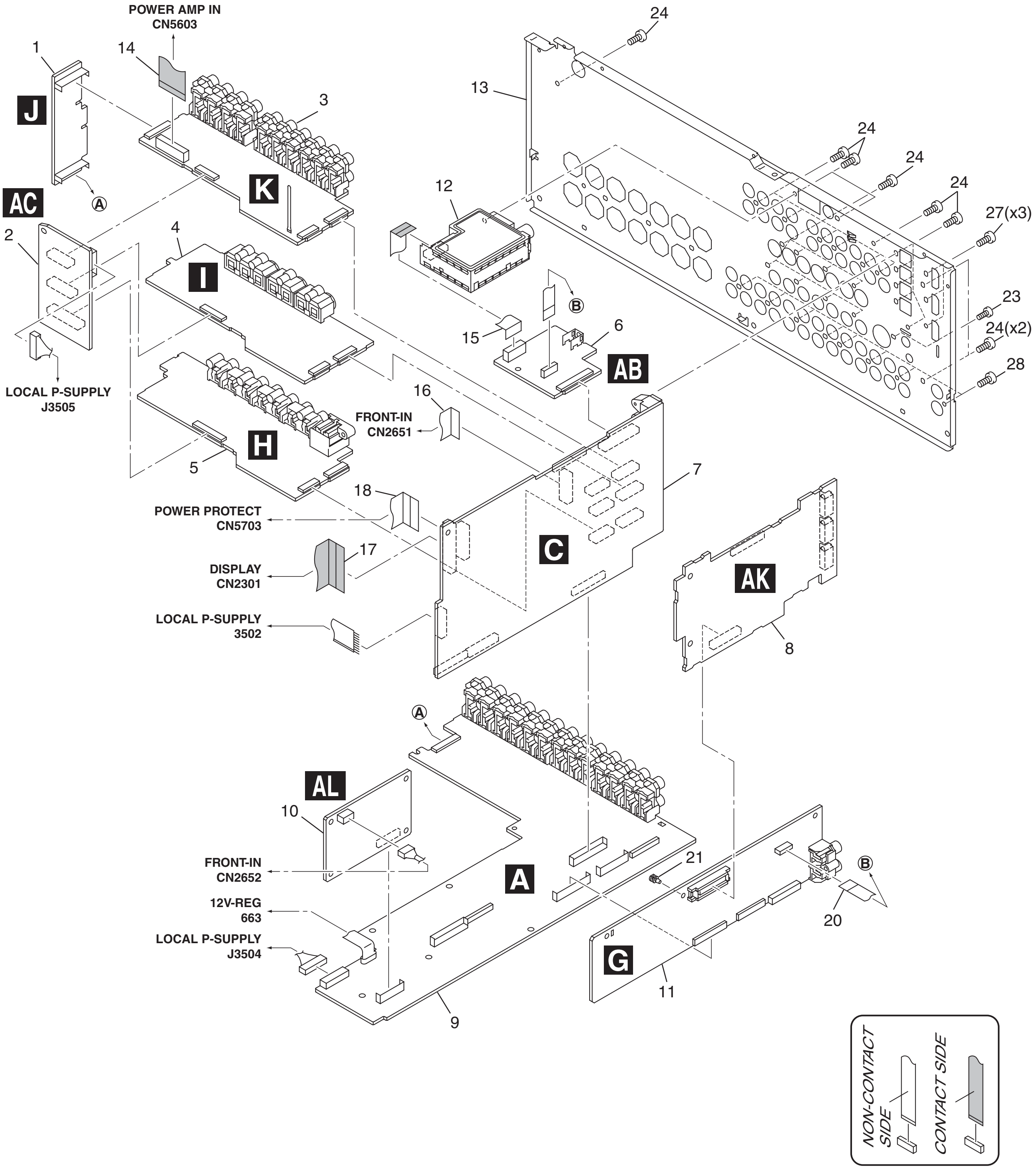
(2) CONTRAST TABLE

VSX-LX50/HYXJ5, VSX-91TXH/KUXJ/CA and VSX-9120TXH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX50/ HYXJ5	VSX-91TXH/ KUXJ/CA	VSX-9120TXH-K/ KUXJ
	1	PRIMARY Assy	AWX9035	AWX9034	AWX9034
	3	TRANS 2-1 Assy	AWX9059	AWX9058	AWX9058
	6	PS/SP Assy	AWX9107	AWX9052	AWX9052
	8	LOCAL P-SUPPLY Assy	AWX9064	AWX9063	AWX9063
⚠	15	Fuse (FU1: T5 A L 250 V)	REK1029	Not used	Not used
⚠	15	Fuse (FU1: 10 A/125 V)	Not used	REK1154	REK1154
⚠	16	Fuse (FU7,FU8: T2.5 A L 250 V)	REK1026	Not used	Not used
⚠	16	Fuse (FU7,FU8: 2.5 A/125 V)	Not used	REK1146	REK1146
⚠	17	Fuse (FU4: T4 A L 250 V)	REK1028	Not used	Not used
⚠	17	Fuse (FU4: 5 A/125 V)	Not used	REK1067	REK1067
⚠	18	Fuse (FU5,FU6: T800 mA L 250 V)	REK1021	Not used	Not used
⚠	18	Fuse (FU5,FU6: 1.25 A/125 V)	Not used	REK1143	REK1143
⚠	19	Power Transformer (T1501)	ATS7408	ATS7407	ATS7407
⚠	20	AC Power Cord	VDG1080	VDG1075	VDG1075
	21	Cord Stopper	CM-22B	CM-22C	CM-22C
	50	Primary Barrier	AEC7569	Not used	Not used
	51	Shield Case	AMR7526	Not used	Not used
NSP	52	Fuse Card	AAX7098	Not used	Not used
NSP	53	Fuse Card	AAX7277	Not used	Not used
NSP	54	Fuse Card	AAX7099	Not used	Not used
NSP	55	Fuse Card	AAX2367	Not used	Not used

9.4 REAR SECTION

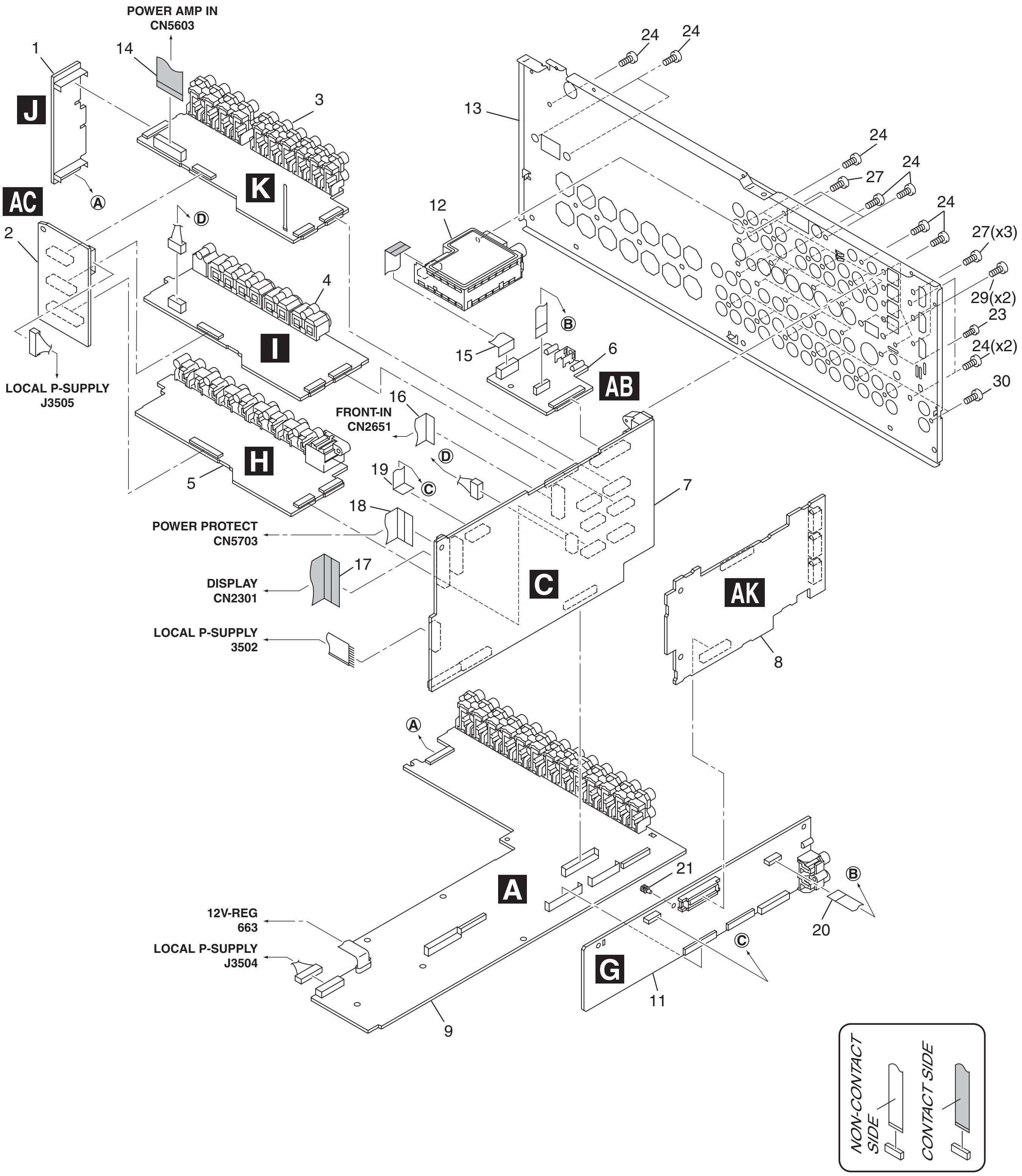
• VSX-LX50


POWER AMP IN
CN5603
1
14
3
J
AC
Ⓐ
K
2
4
I
LOCAL P-SUPPLY
J3505
H
5
24
13
24
24
24
12
27(x3)
23
24(x2)
28
Ⓑ
6
15
AB
16
FRONT-IN
CN2651
7
18
POWER PROTECT
CN5703
17
DISPLAY
CN2301
LOCAL P-SUPPLY
3502
C
AK
8
Ⓐ
AL
10
FRONT-IN
CN2652
12V-REG
663
LOCAL P-SUPPLY
J3504
A
21
Ⓑ
20
G
11
9
NON-CONTACT SIDE
CONTACT SIDE

(1) REAR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	BRIDGE 2 Assy	AWX8850
	2	VIDEO CONNECT Assy	AWX9069
	3	COMPONENT Assy	AWX8848
	4	S-VIDEO Assy	AWX8845
	5	COMPOSITE Assy	AWX8842
	6	IR I/O Assy	AWX9067
	7	MAIN CONTROL Assy	AWX8817
	8	HDMI & DVC Assy	AWQ7040
	9	AUDIO IN Assy	AWX8821
	10	USB Assy	AWX8866
	11	DSP Assy	AWX8814
	12	FM/AM Tuner Unit	AXX7248
	13	Rear Panel LX50HY	ANC8469
	14	19P FFC/60V (J58)	ADD7535
	15	11P FFC/60V (J59)	ADD7536
	16	17P FFC/60V (J54)	ADD7540
	17	29P FFC/60V (J55)	ADD7532
	18	19P FFC/60V (J56)	ADD7533
	20	10P FFC/60V (J51)	ADD7528
	21	Card Spacer	AEC7214
	23	Screw	BBZ26P080FCC
	24	Screw	BBZ30P080FCC
	27	Screw	PMZ30P060FCC
	28	Screw	BBT30P080FNI

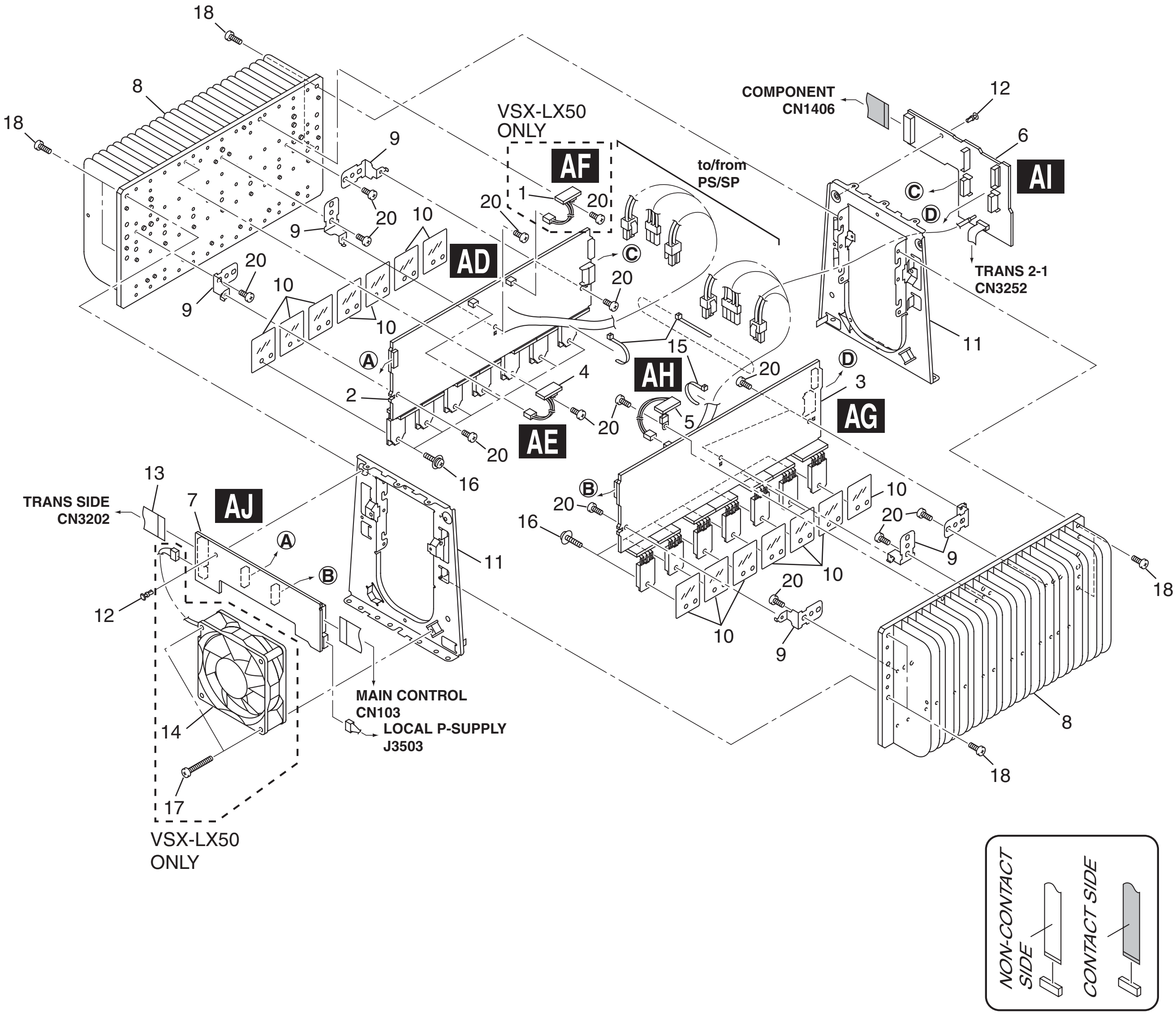
● VSX-91TXH, VSX-9120TXH-K


POWER AMP IN
CN5603
1
14
3
J
K
AC
Ⓐ
Ⓓ
2
4
I
LOCAL P-SUPPLY
J3505
H
5
16
FRONT-IN
CN2651
Ⓓ
19
Ⓒ
18
POWER PROTECT
CN5703
17
DISPLAY
CN2301
LOCAL P-SUPPLY
3502
C
7
13
24
24
24
27
24
24
27(x3)
29(x2)
23
24(x2)
30
12
Ⓑ
15
6
AB
AK
8
Ⓐ
A
21
Ⓑ
20
12V-REG
663
LOCAL P-SUPPLY
J3504
9
G
11
Ⓒ
NON-CONTACT SIDE
CONTACT SIDE

(1) REAR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	BRIDGE 2 Assy	AWX8850
	2	VIDEO CONNECT Assy	AWX9069
	3	COMPONENT Assy	AWX8847
	4	S-VIDEO Assy	AWX8844
	5	COMPOSITE Assy	AWX8841
	6	IR I/O Assy	AWX9066
	7	MAIN CONTROL Assy	AWX8816
	8	HDMI & DVC Assy	AWQ7040
	9	AUDIO IN Assy	AWX8820
	11	DSP Assy	AWX8813
	12	FM/AM Tuner Unit	AXX7250
	13	Rear Panel 91KU	ANC8467
	13	Rear Panel 9120KKU	ANC8468
	14	19P FFC/60V (J58)	ADD7535
	15	11P FFC/60V (J59)	ADD7536
	16	17P FFC/60V (J54)	ADD7540
	17	29P FFC/60V (J55)	ADD7532
	18	19P FFC/60V (J56)	ADD7533
	19	12P FFC/60V (J52)	ADD7529
	20	10P FFC/60V (J51)	ADD7528
	21	Card Spacer	AEC7214
	23	Screw	BBZ26P080FCC
	24	Screw	BBZ30P080FCC
	27	Screw	PMZ30P060FCC
	29	Screw 2.85 x 7	ABA7078
	30	Screw	BBT30P080FNI

9.5 POWER AMP SECTION


18
8
18
9
20
9
20
10
9
20
10
10
VSX-LX50
ONLY
AF
1
20
20
AD
C
20
to/from
PS/SP
COMPONENT
CN1406
12
6
AI
C
D
TRANS 2-1
CN3252
11
A
2
4
AE
20
20
16
15
AH
5
20
20
D
3
AG
13
TRANS SIDE
CN3202
7
AJ
A
B
12
14
17
VSX-LX50
ONLY
11
MAIN CONTROL
CN103
LOCAL P-SUPPLY
J3503
B
20
16
10
20
9
10
20
10
9
18
8
18
NON-CONTACT
SIDE
CONTACT SIDE

(1) POWER AMP SECTION PARTS LIST

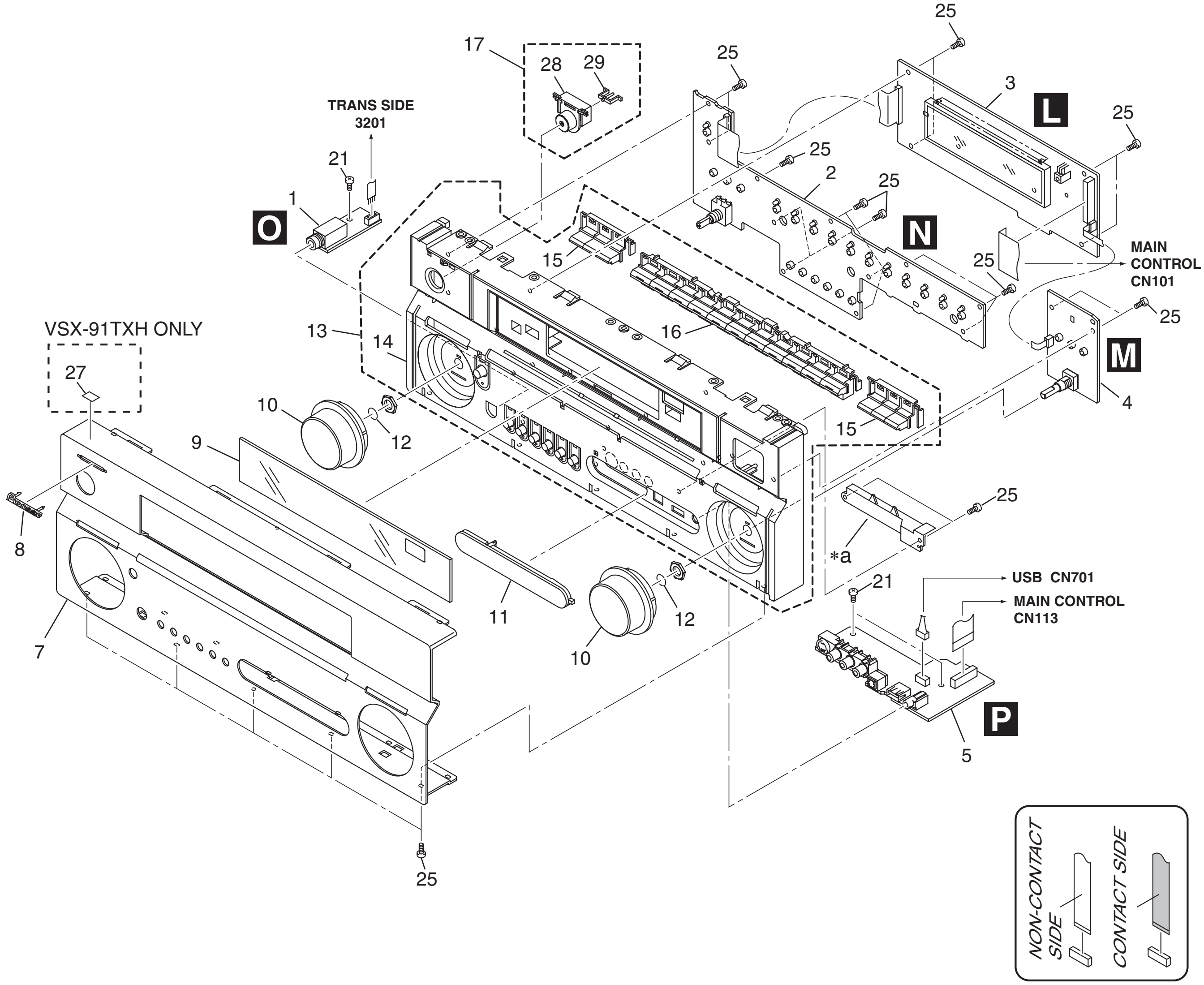
Mark	No.	Description	Part No.
	1	POSI 2-L Assy	See Contrast table (2)
	2	POWER AMP-L Assy	See Contrast table (2)
	3	POWER AMP-R Assy	See Contrast table (2)
	4	POSI 1-L Assy	See Contrast table (2)
	5	POSI 1-R Assy	See Contrast table (2)
	6	POWER AMP IN Assy	AWX9075
	7	POWER PROTECT Assy	See Contrast table (2)
NSP	8	Heat Sink 45	ANH7152
	9	PCB Angle 45	ANG7406
	10	Mica Sheet 45	AEE7047
	11	H.S. Angle 2016	ANG7547
	12	Nyron Rivet	AEC7408
	13	17P FFC/60V (J57)	ADD7534
⚠	14	DC Fan Motor	See Contrast table (2)
NSP	15	Binder	ZCA-BK1
	16	Screw 3X19	ABA7085
	17	Screw	See Contrast table (2)
	18	Screw	BBT30P100FCC
	20	Screw	BBZ30P080FCC

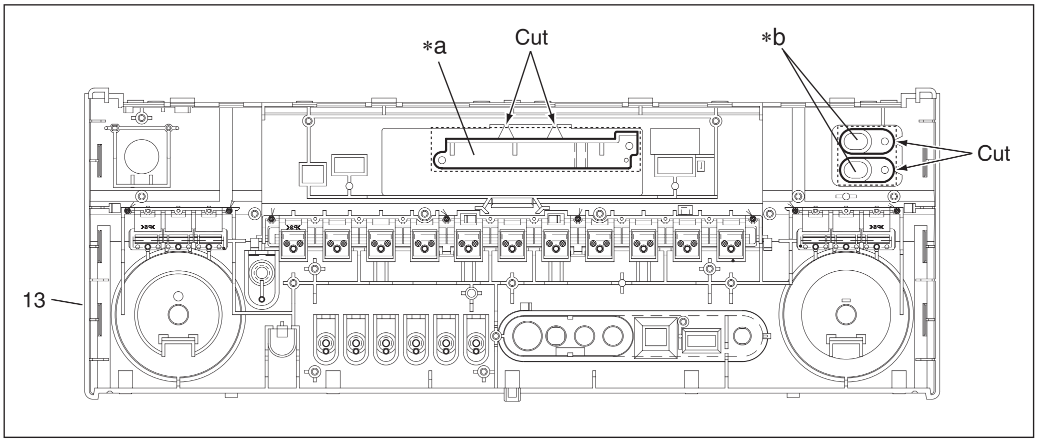
(2) CONTRAST TABLE

VSX-LX50/HYXJ5, VSX-91TXH/KUXJ/CA and VSX-9120TXH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX50/ HYXJ5	VSX-91TXH/ KUXJ/CA	VSX-9120TXH-K/ KUXJ
	1	POSI 2-L Assy	AWX9082	Not used	Not used
	2	POWER AMP-L Assy	AWX9072	AWX9071	AWX9071
	3	POWER AMP-R Assy	AWX9073	AWX9106	AWX9106
	4	POSI 1-L Assy	AWX9081	AWX9080	AWX9080
	5	POSI 1-R Assy	AWX9084	AWX9083	AWX9083
	7	POWER PROTECT Assy	AWX9077	AWX9076	AWX9076
⚠	14	DC Fan Motor	AXM7029	Not used	Not used
	17	Screw	BBZ30P300FTC	Not used	Not used

9.6 FRONT PANEL SECTION


25
17
28
29
25
3
L
25
TRANS SIDE
3201
21
25
2
25
1
O
N
15
25
MAIN
CONTROL
CN101
VSX-91TXH ONLY
13
14
16
25
M
27
4
10
12
15
9
25
8
*a
11
21
USB CN701
MAIN CONTROL
CN113
12
7
10
P
5
25
NON-CONTACT
SIDE
CONTACT SIDE


*a
Cut
*b
Cut
13

(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	HEADPHONE Assy	AWX9049
	2	MULTI JOG Assy	See Contrast table (2)
	3	DISPLAY Assy	See Contrast table (2)
	4	VOLUME Assy	See Contrast table (2)
	5	FRONT-IN Assy	See Contrast table (2)
	7	F Panel	See Contrast table (2)
	8	Pioneer Name Plate	See Contrast table (2)
	9	Window	See Contrast table (2)
	10	Vol. Knob	AAA7049
	11	Input Cover	See Contrast table (2)
NSP	12	C Ring DIM 8.1	XBH3016
	13	P Base Assy	See Contrast table (2)
NSP	14	P Base	See Contrast table (2)
NSP	15	Side Button	AAD7761
NSP	16	Func BTN Assy	AAD7758

Mark	No.	Description	Part No.
	17	Standby BTN Assy	See Contrast table (2)
	21	Screw	BBZ30P080FCC
	25	Screw	PPZ30P080FNI
NSP	27	Energy Star Label	See Contrast table (2)
	28	Standby BTN	See Contrast table (2)
NSP	29	Standby Lens V2	XAK3477

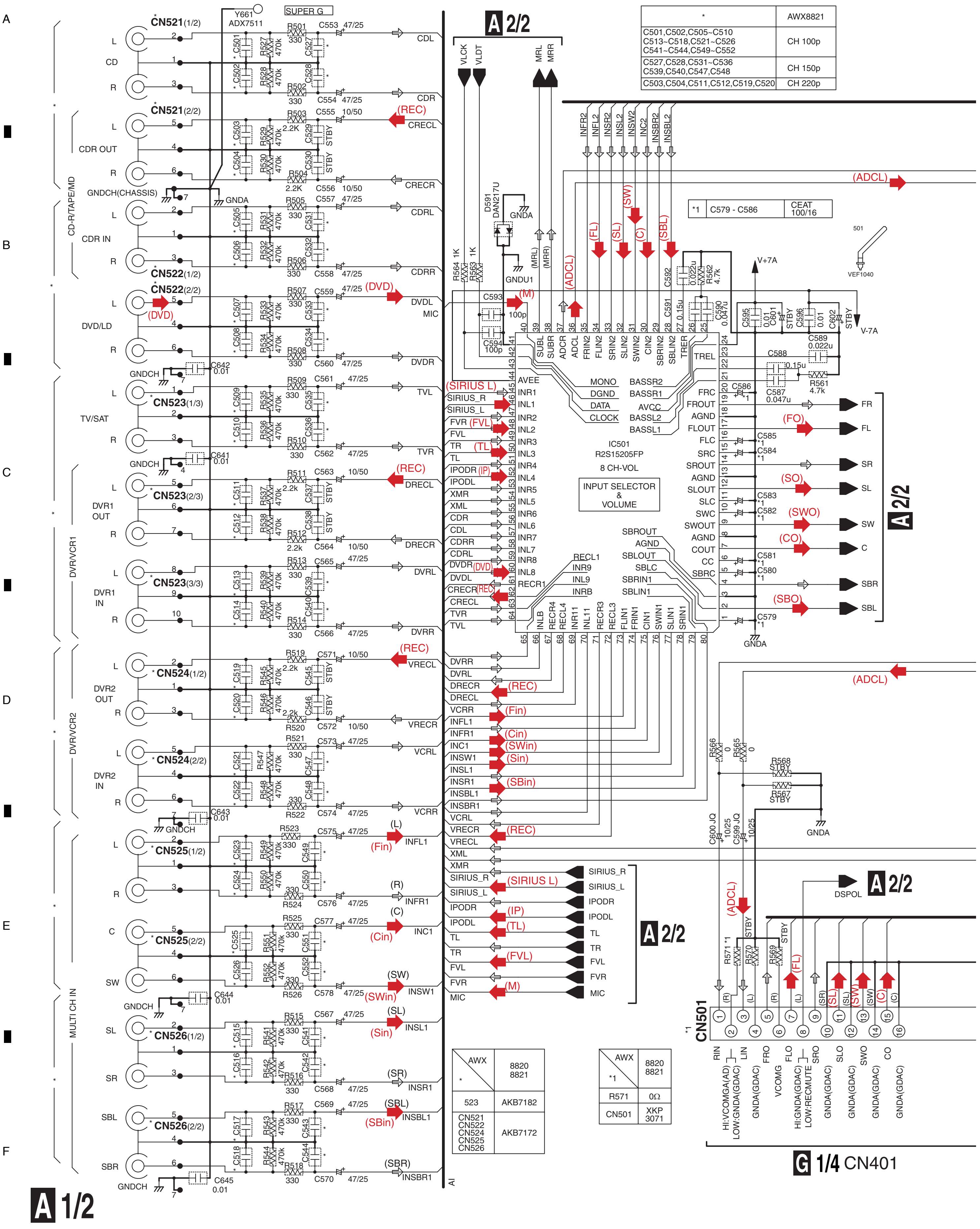
(2) CONTRAST TABLE

VSX-LX50/HYXJ5, VSX-91TXH/KUXJ/CA and VSX-9120TXH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX50/ HYXJ5	VSX-91TXH/ KUXJ/CA	VSX-9120TXH-K/ KUXJ
	2	MULTI JOG Assy	AWX8880	AWX8879	AWX8879
	3	DISPLAY Assy	AWX8874	AWX8873	AWX8873
	4	VOLUME Assy	AWX9111	AWX9044	AWX9044
	5	FRONT-IN Assy	AWX8955	AWX8954	AWX8954
	7	F Panel LX50HY	ANB7415	Not used	Not used
	7	F Panel 91KU	Not used	ANB7413	Not used
	7	F Panel 9120KKU	Not used	Not used	ANB7414
	8	Pioneer Name Plate	AAM1107	VAM1109	XAM3006
	9	Window LX50HY	AAK8389	Not used	Not used
	9	Window 91KU	Not used	AAK8388	Not used
	9	Window 9120KU	Not used	Not used	AAK8387
	11	Input Cover LXHY	AAK8386	Not used	Not used
	11	Input Cover 81K	Not used	AAK8355	Not used
	13	P Base LX50HY Assy	AXG7336	Not used	Not used
	13	P Base 81KKU Assy	Not used	AXG7290	Not used
	13	P Base 9110KKU Assy	Not used	Not used	AXG7309
NSP	14	P Base 1016KPW	AMB7926	Not used	Not used
NSP	14	P Base 81KKU	Not used	AMB7919	Not used
NSP	14	P Base 9110KKU	Not used	Not used	AMB7921
	17	Standby BTN LXHY Assy	AAD7773	Not used	Not used
	17	Standby BTN 915K Assy	Not used	XAD3216	XAD3216
NSP	27	Energy Star Label	Not used	AAX8022	Not used
	28	Standby BTN LXHY	AAD7772	Not used	Not used
NSP	28	Standby BTN 915K	Not used	XAD3200	XAD3200

10. SCHEMATIC DIAGRAM

10.1 AUDIO IN ASSY (1/2)


A 1/2
A 2/2
G 1/4 CN401
CN521(1/2)
CN521(2/2)
CN522(1/2)
CN522(2/2)
CN523(1/3)
CN523(2/3)
CN523(3/3)
CN524(1/2)
CN524(2/2)
CN525(1/2)
CN525(2/2)
CN526(1/2)
CN526(2/2)
CN501
Y661 ADX7511
SUPER G
CD
CDR OUT
CDR IN
GNDCH(CHASSIS)
CD-R/TAPE/MD
DVD/LD
TV/SAT
DVR1 OUT
DVR1 IN
DVR/VCR1
DVR2 OUT
DVR2 IN
DVR/VCR2
MULTI CH IN
L
R
C
SW
SL
SR
SBL
SBR
GNDCH
GNDA
CDL
CDR
CRECL
CRECR
CDRL
CDRR
DVDL
DVDR
MIC
TVL
TVR
DRECL
DRECR
DVRL
DVRR
VRECL
VRECR
VCRL
VCRR
INFL1
INFR1
INC1
INSW1
INSL1
INSR1
INSBL1
INSBR1
(REC)
(DVD)
(Fin)
(Cin)
(SWin)
(Sin)
(SBin)
(FVL)
(TL)
(IP)
(SIRIUS L)
(M)
(ADCL)
(FL)
(SL)
(C)
(SW)
(SBL)
(FO)
(SO)
(SWO)
(CO)
(SBO)
VLCK
VLDT
MRL
MRR
(MRL)
(MRR)
D591 DAN217U
GNDU1
INFR2
INFL2
INSR2
INSL2
INSW2
INC2
INSBR2
INSBL2
V+7A
V-7A
VEF1040
501
IC501
R2S15205FP
8 CH-VOL
INPUT SELECTOR & VOLUME
AVEE
INR1
INL1
INR2
INL2
INR3
INL3
INR4
INL4
INR5
INL5
INR6
INL6
INR7
INL7
INR8
INL8
RECR1
INLB
RECR4
RECL4
INR11
INL11
RECR3
RECL3
FLIN1
FRIN1
CIN1
SWIN1
SLIN1
SRIN1
MONO
DGND
DATA
CLOCK
BASSR2
BASSR1
AVCC
BASSL2
BASSL1
FRC
FROUT
AGND
FLOUT
FLC
SRC
SROUT
SLOUT
SLC
SWC
SWOUT
COUT
CC
SBRC
SBROUT
SBLOUT
SBLC
SBRIN1
SBLIN1
RECL1
INR9
INL9
INRB
TREL
TRER
SUBL
SUBR
ADCR
ADCL
FRIN2
FLIN2
SRIN2
SLIN2
SWIN2
CIN2
SBRIN2
SBLIN2
FR
FL
SR
SL
SW
C
SBR
SBL
DSPOL
SIRIUS_R
SIRIUS_L
IPODR
IPODL
TL
TR
FVL
FVR
XMR
XML
CDRR
CDRL
DVDR
CRECR
CRECL
R564 1K
R563 1K
R561 4.7k
R562 4.7k
R566 0
R565 0
R568 STBY
R567 STBY
R571 *1
R570 STBY
R569 STBY
C600 JQ 10/25
C599 JQ 10/25
STBY
RIN
LIN
FRO
VCOMG
FLO
SRO
SLO
SWO
CO
HI:VCOMGA(AD) LOW:GNDA(GDAC)
GNDA(GDAC)
HI:GNDA(GDAC) LOW:RECMUTE
AI

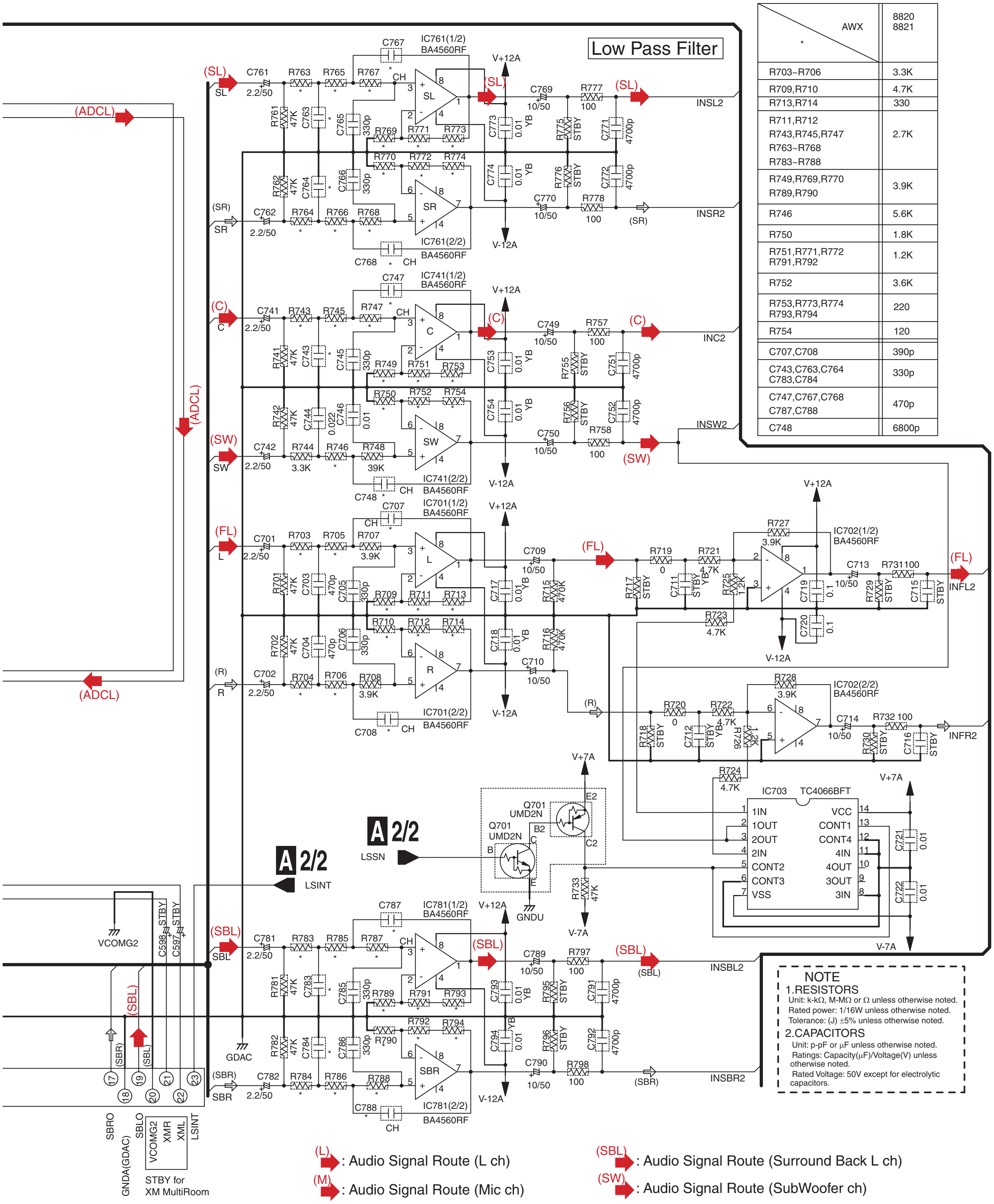
*	AWX8821
C501,C502,C505~C510 C513~C518,C521~C526 C541~C544,C549~C552	CH 100p
C527,C528,C531~C536 C539,C540,C547,C548	CH 150p
C503,C504,C511,C512,C519,C520	CH 220p

*1	C579 - C586	CEAT 100/16

AWX *	8820 8821
523	AKB7182
CN521 CN522 CN524 CN525 CN526	AKB7172

AWX *1	8820 8821
R571	0Ω
CN501	XKP 3071

A 1/2 AUDIO IN ASSY
(VSX-LX50 : AWX8821)
(VSX-91TXH, VSX-9120TXH : AWX8820)


Low Pass Filter
(SL)
SL
(SR)
SR
(C)
C
(SW)
SW
(FL)
L
(R)
R
(SBL)
SBL
(SBR)
SBR
(ADCL)
IC761(1/2) BA4560RF
IC761(2/2) BA4560RF
IC741(1/2) BA4560RF
IC741(2/2) BA4560RF
IC701(1/2) BA4560RF
IC701(2/2) BA4560RF
IC702(1/2) BA4560RF
IC702(2/2) BA4560RF
IC781(1/2) BA4560RF
IC781(2/2) BA4560RF
IC703 TC4066BFT
1IN
1OUT
2OUT
2IN
CONT2
CONT3
VSS
VCC
CONT1
CONT4
4IN
4OUT
3OUT
3IN
Q701 UMD2N
V+12A
V-12A
V+7A
V-7A
INSL2
INSR2
INC2
INSW2
INFL2
INFR2
INSBL2
INSBR2
A 2/2
LSSN
LSINT
VCOMG2
GDAC
GNDU
STBY
SBRO
SBLO
GNDA(GDAC)
VCOMG2
XMR
XML
LSINT
STBY for XM MultiRoom

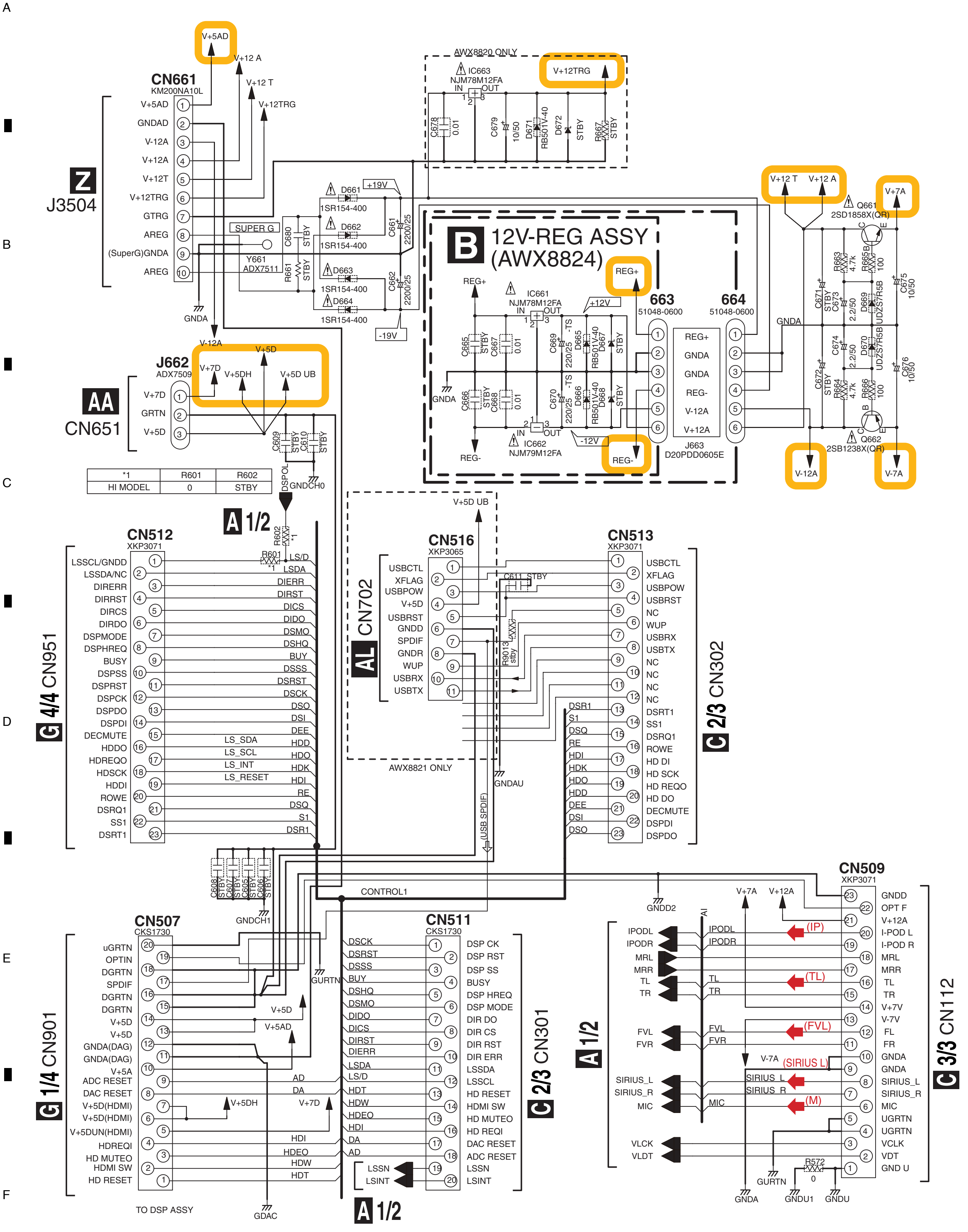
AWX / *	8820 8821
R703~R706	3.3K
R709,R710	4.7K
R713,R714	330
R711,R712 R743,R745,R747 R763~R768 R783~R788	2.7K
R749,R769,R770 R789,R790	3.9K
R746	5.6K
R750	1.8K
R751,R771,R772 R791,R792	1.2K
R752	3.6K
R753,R773,R774 R793,R794	220
R754	120
C707,C708	390p
C743,C763,C764 C783,C784	330p
C747,C767,C768 C787,C788	470p
C748	6800p

NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

(L): Audio Signal Route (L ch)
(M): Audio Signal Route (Mic ch)
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
(SBL): Audio Signal Route (Surround Back L ch)
(SW): Audio Signal Route (SubWoofer ch)

A 1/2

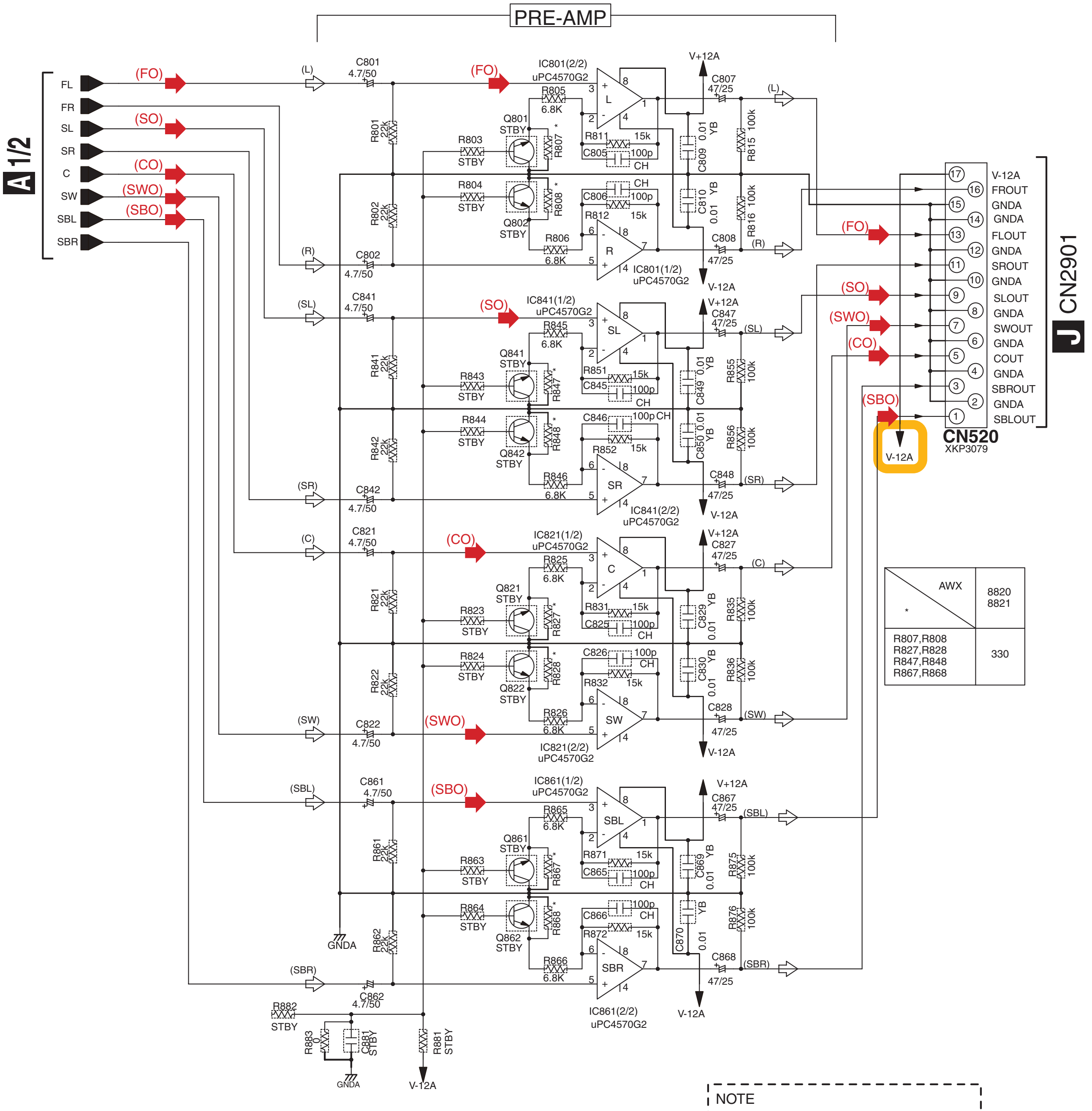
10.2 AUDIO IN (2/2) and 12V-REG ASSYS


A
B
C
D
E
F
V+5AD
V+12 A
V+12 T
V+12TRG
CN661
KM200NA10L
V+5AD
GNDAD
V-12A
V+12A
V+12T
V+12TRG
GTRG
AREG
(SuperG)GNDA
AREG
Z
J3504
GNDA
SUPER G
Y661
ADX7511
C680
STBY
R661
STBY
D661
1SR154-400
+19V
D662
1SR154-400
D663
1SR154-400
D664
1SR154-400
C661
2200/25
C662
2200/25
-19V
AWX8820 ONLY
IC663
NJM78M12FA
IN
OUT
V+12TRG
C678
0.01
C679
10/50
D671
RB501V-40
D672
STBY
R667
STBY
B
12V-REG ASSY
(AWX8824)
REG+
IC661
NJM78M12FA
+12V
C665
STBY
C667
0.01
C669
220/25
-TS
D665
RB501V-40
D667
STBY
GNDA
C666
STBY
C668
0.01
C670
220/25
-TS
D666
RB501V-40
D668
STBY
IC662
NJM79M12FA
-12V
REG-
663
51048-0600
664
51048-0600
REG+
GNDA
GNDA
REG-
V-12A
V+12A
J663
D20PDD0605E
GNDA
V+12 T
V+12 A
V+7A
Q661
2SD1858X(QR)
R663
4.7k
R665
100
C671
STBY
C673
2.2/50
D669
UDZS7R5B
C675
10/50
C674
2.2/50
C672
STBY
D670
UDZS7R5B
R664
4.7k
R666
100
C676
10/50
Q662
2SB1238X(QR)
V-12A
V-7A
J662
ADX7509
V-12A
V+5D
V+7D
V+5DH
V+5D UB
AA
CN651
V+7D
GRTN
V+5D
C609
STBY
C610
STBY
DSPOL
GNDCH0
*1
R601
R602
HI MODEL
0
STBY
A 1/2
R602
*1
CN512
XKP3071
LSSCL/GNDD
LSSDA/NC
DIRERR
DIRRST
DIRCS
DIRDO
DSPMODE
DSPHREQ
BUSY
DSPSS
DSPRST
DSPCK
DSPDO
DSPDI
DECMUTE
HDDO
HDREQO
HDSCK
HDDI
ROWE
DSRQ1
SS1
DSRT1
G 4/4 CN951
R601
*1
LS/D
LSDA
DIERR
DIRST
DICS
DIDO
DSMO
DSHQ
BUY
DSSS
DSRST
DSCK
DSO
DSI
DEE
HDD
HDO
HDK
HDI
RE
DSQ
S1
DSR1
LS_SDA
LS_SCL
LS_INT
LS_RESET
AWX8821 ONLY
V+5D UB
AL CN702
CN516
XKP3065
USBCTL
XFLAG
USBPOW
V+5D
USBRST
GNDD
SPDIF
GNDR
WUP
USBRX
USBTX
C611
STBY
R9013
stby
GNDAU
(USB SPDIF)
CN513
XKP3071
USBCTL
XFLAG
USBPOW
USBRST
NC
WUP
USBRX
USBTX
NC
NC
NC
NC
DSRT1
SS1
DSRQ1
ROWE
HD DI
HD SCK
HD REQO
HD DO
DECMUTE
DSPDI
DSPDO
C 2/3 CN302
DSR1
S1
DSQ
RE
HDI
HDK
HDO
HDD
DEE
DSI
DSO
C608
STBY
C607
STBY
C605
STBY
C606
STBY
GNDCH1
CONTROL1
CN507
CKS1730
uGRTN
OPTIN
DGRTN
SPDIF
DGRTN
DGRTN
V+5D
V+5D
GNDA(DAG)
GNDA(DAG)
V+5A
ADC RESET
DAC RESET
V+5D(HDMI)
V+5D(HDMI)
V+5DUN(HDMI)
HDREQI
HD MUTEO
HDMI SW
HD RESET
G 1/4 CN901
TO DSP ASSY
GDAC
GURTN
V+5D
V+5AD
AD
DA
V+5DH
V+7D
HDI
HDEO
HDW
HDT
CN511
CKS1730
DSCK
DSRST
DSSS
BUY
DSHQ
DSMO
DIDO
DICS
DIRST
DIERR
LSDA
LS/D
HDT
HDW
HDEO
HDI
DA
AD
LSSN
LSINT
DSP CK
DSP RST
DSP SS
BUSY
DSP HREQ
DSP MODE
DIR DO
DIR CS
DIR RST
DIR ERR
LSSDA
LSSCL
HD RESET
HDMI SW
HD MUTEO
HD REQI
DAC RESET
ADC RESET
LSSN
LSINT
A 1/2
C 2/3 CN301
A 1/2
GNDD2
AI
CN509
XKP3071
V+7A
V+12A
IPODL
IPODR
MRL
MRR
TL
TR
FVL
FVR
SIRIUS_L
SIRIUS_R
MIC
VLCK
VLDT
IPODL
IPODR
TL
TR
FVL
FVR
V-7A
SIRIUS_L
SIRIUS_R
MIC
(IP)
(TL)
(FVL)
(SIRIUS L)
(M)
R572
0
GURTN
GNDA
GNDU1
GNDU
GNDD
OPT F
V+12A
I-POD L
I-POD R
MRL
MRR
TL
TR
V+7V
V-7V
FL
FR
GNDA
GNDA
SIRIUS_L
SIRIUS_R
MIC
UGRTN
UGRTN
VCLK
VDT
GND U
C 3/3 CN112

A 2/2 **B**

A 2/2 AUDIO IN ASSY
(VSX-LX50 : AWX8821)
(VSX-91TXH, VSX-9120TXH : AWX8820)

HIGH	
91TXH/KUCA 9120TXH/KUCA	AWX8820
LX50/HY	AWX8821



PRE-AMP
A 1/2
FL
FR
SL
SR
C
SW
SBL
SBR
(FO)
(SO)
(CO)
(SWO)
(SBO)
C801 4.7/50
C802 4.7/50
C841 4.7/50
C842 4.7/50
C821 4.7/50
C822 4.7/50
C861 4.7/50
C862 4.7/50
IC801(2/2) uPC4570G2
IC801(1/2) uPC4570G2
IC841(1/2) uPC4570G2
IC841(2/2) uPC4570G2
IC821(1/2) uPC4570G2
IC821(2/2) uPC4570G2
IC861(1/2) uPC4570G2
IC861(2/2) uPC4570G2
Q801 STBY
Q802 STBY
Q841 STBY
Q842 STBY
Q821 STBY
Q822 STBY
Q861 STBY
Q862 STBY
V+12A
V-12A
GNDA
STBY
R882
R883 0
C881
R881
J CN2901
CN520
XKP3079
17 V-12A
16 FROUT
15 GNDA
14 GNDA
13 FLOUT
12 GNDA
11 SROUT
10 GNDA
9 SLOUT
8 GNDA
7 SWOUT
6 GNDA
5 COUT
4 GNDA
3 SBROUT
2 GNDA
1 SBLOUT

AWX *	8820 8821
R807,R808 R827,R828 R847,R848 R867,R868	330

(L) : Audio Signal Route (L ch)

(M) : Audio Signal Route (Mic ch)

(FL) : Audio Signal Route (Front L ch)

(SL) : Audio Signal Route (Surround L ch)

(C) : Audio Signal Route (Center ch)

(SBL) : Audio Signal Route (Surround Back L ch)

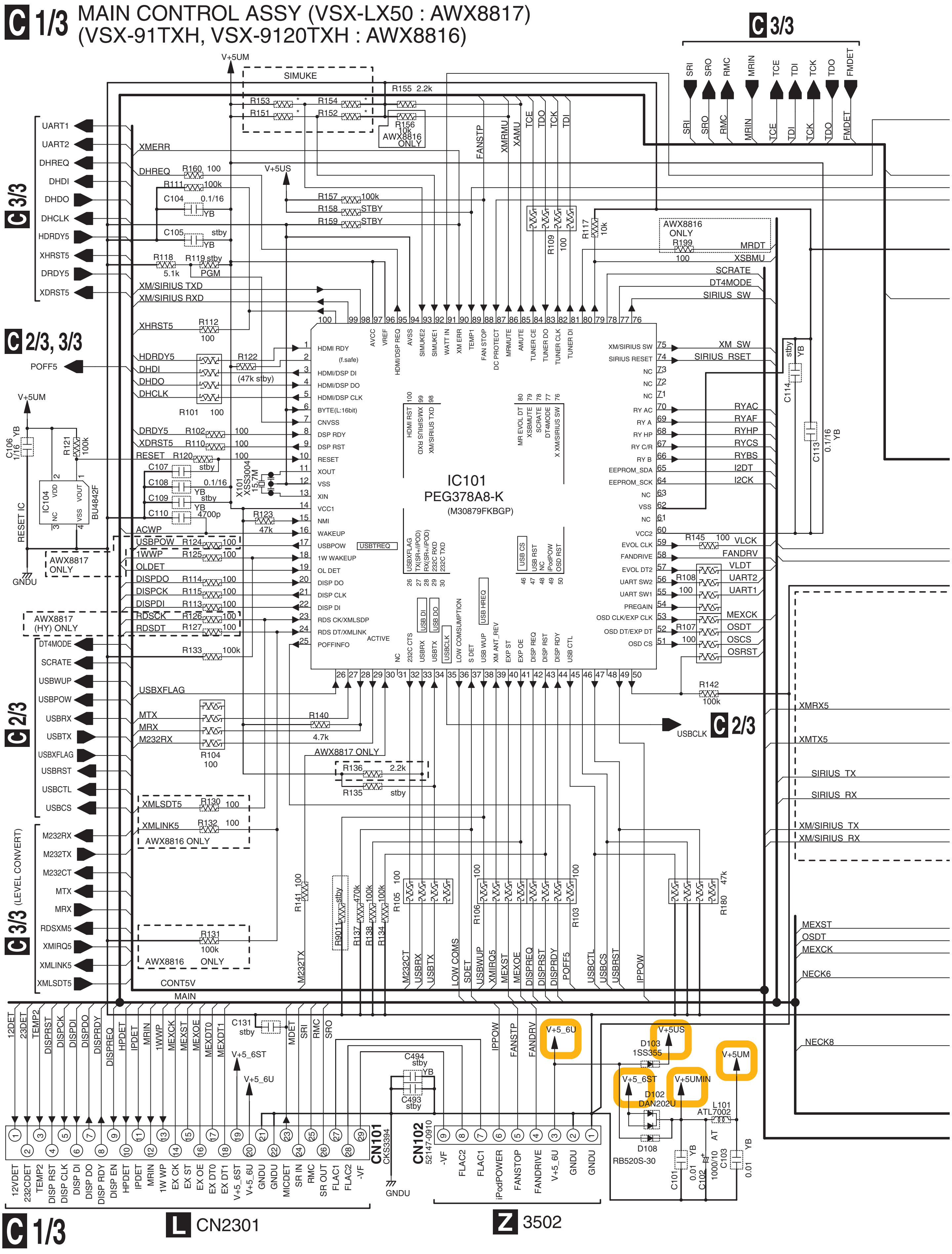
(SW) : Audio Signal Route (SubWoofer ch)

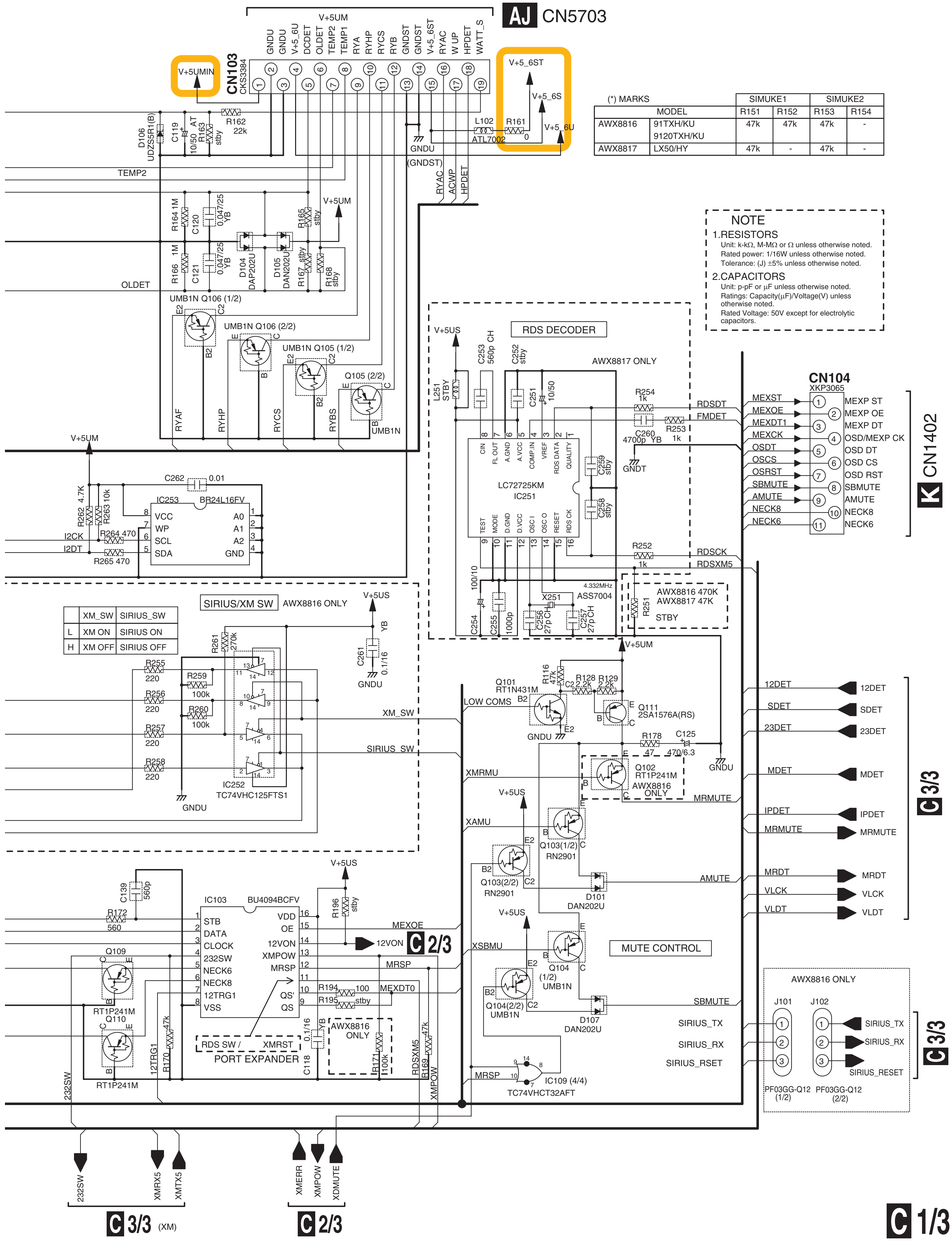
NOTE

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

10.3 MAIN CONTROL ASSY (1/3)


C 1/3 MAIN CONTROL ASSY (VSX-LX50 : AWX8817)
(VSX-91TXH, VSX-9120TXH : AWX8816)
C 3/3
SRI
SRO
RMC
MRIN
TCE
TDI
TCK
TDO
FMDET
V+5UM
SIMUKE
R153
R151
R154
R152
R155 2.2k
R156 10k AWX8816 ONLY
FANSTP
XMRMU
XAMU
TCE
TDO
TCK
TDI
UART1
UART2
DHREQ
DHDI
DHDO
DHCLK
HDRDY5
XHRST5
DRDY5
XDRST5
XMERR
DHREQ
R160 100
R111 100k
C104 0.1/16 YB
C105 stby YB
R118 5.1k
R119 stby PGM
V+5US
R157 100k
R158 STBY
R159 STBY
R109 100
R117 10k
AWX8816 ONLY
R199 100
MRDT
XSBMU
SCRATE
DT4MODE
SIRIUS_SW
XM/SIRIUS TXD
XM/SIRIUS RXD
C 2/3, 3/3
XHRST5
R112 100
POFF5
HDRDY5
DHDI
DHDO
DHCLK
R122
(47k stby)
R101 100
V+5UM
C106 1/16 YB
R121 100k
RESET IC
IC104 BU4842F
VDD
VOUT
NC
VSS
DRDY5
R102 100
XDRST5
R110 100
RESET
R120 100
C107 stby
C108 0.1/16 YB
C109 stby YB
C110 4700p
X101 XSS3004 15.7M
R123 47k
ACWP
USBPOW
R124 100
1WWP
R125 100
OLDET
DISPDO
R114 100
DISPCK
R115 100
DISPDI
R113 100
RDSCK
R126 100
RDSDT
R127 100
AWX8817 ONLY
AWX8817 (HY) ONLY
GNDU
R133 100k
HDMI RDY (f.safe)
HDMI/DSP DI
HDMI/DSP DO
HDMI/DSP CLK
BYTE(L:16bit)
CNVSS
DSP RDY
DSP RST
RESET
XOUT
VSS
XIN
VCC1
NMI
WAKEUP
USBPOW
USBTREQ
1W WAKEUP
OL DET
DISP DO
DISP CLK
DISP DI
RDS CK/XMLSDP
RDS DT/XMLINK
ACTIVE
POFFINFO
AVCC
VREF
HDMI/DSP REQ
AVSS
SIMUKE2
SIMUKE1
WATT IN
XM ERR
TEMP1
FAN STOP
DC PROTECT
MRMUTE
AMUTE
TUNER CE
TUNER DO
TUNER CLK
TUNER DI
HDMI RST
XM/SIRIUS RXD
XM/SIRIUS TXD
MR EVOL DT
XSBMUTE
SCRATE
DT4MODE
X XM/SIRIUS SW
IC101
PEG378A8-K
(M30879FKBGP)
XM/SIRIUS SW
SIRIUS RESET
NC
RY AC
RY A
RY HP
RY C/R
RY B
EEPROM_SDA
EEPROM_SCK
VSS
VCC2
EVOL CLK
FANDRIVE
EVOL DT2
UART SW2
UART SW1
PREGAIN
OSD CLK/EXP CLK
OSD DT/EXP DT
OSD CS
XM_SW
SIRIUS_RSET
stby YB
C114
RYAC
RYAF
RYHP
RYCS
RYBS
I2DT
I2CK
C113 0.1/16 YB
R145 100
VLCK
FANDRV
VLDT
UART2
UART1
R108 100
MEXCK
OSDT
OSCS
OSRST
R107 100
USBXFLAG
TX(SR+/IPOD)
RX(SR+/IPOD)
232C RXD
232C TXD
USB CS
USB RST
NC
IPodPOW
OSD RST
NC
232C CTS
USBRX
USBTX
USBCLK
LOW COMSUMPTION
S DET
USB WUP
XM ANT_REV
EXP ST
EXP OE
DISP REQ
DISP RST
DISP RDY
USB CTL
USB DI
USB DO
USB HREQ
R142 100k
C 2/3
USBCLK
DT4MODE
SCRATE
USBWUP
USBPOW
USBRX
USBTX
USBXFLAG
USBRST
USBCTL
USBCS
USBXFLAG
MTX
MRX
M232RX
R104 100
R140 4.7k
AWX8817 ONLY
R136 2.2k
R135 stby
XMLSDT5
R130 100
XMLINK5
R132 100
AWX8816 ONLY
C 3/3 (LEVEL CONVERT)
M232RX
M232TX
M232CT
MTX
MRX
RDSXM5
XMIRQ5
XMLINK5
XMLSDT5
R131 100k
AWX8816 ONLY
CONT5V
MAIN
R141 100
M232TX
R901 stby
R137 470k
R138 100k
R134 100k
R105 100
R106 100
R103 100
R180 47k
M232CT
USBRX
USBTX
LOW COMS
SDET
USBWUP
XMIRQ5
MEXST
MEXOE
DISPREQ
DISPRST
DISPRDY
POFF5
USBCTL
USBCS
USBRST
IPPOW
XMRX5
XMTX5
SIRIUS_TX
SIRIUS_RX
XM/SIRIUS_TX
XM/SIRIUS_RX
MEXST
OSDT
MEXCK
NECK6
NECK8
12DET
23DET
TEMP2
DISPRST
DISPCK
DISPDI
DISPDO
DISPRDY
DISPREQ
HPDET
IPDET
MRIN
1WWP
MEXCK
MEXST
MEXDT0
MEXDT1
C131 stby
MDET
SRI
RMC
SRO
V+5_6ST
V+5_6U
C494 stby YB
C493 stby
IPPOW
FANSTP
FANDRV
V+5_6U
V+5US
V+5UM
D103 1SS355
V+5_6ST
V+5UMIN
D102 DAN202U
L101 ATL7002
D108 RB520S-30
C101 0.01 YB
C102 1000/10 AT
C103 0.01 YB
12VDET
232CDET
TEMP2
DISP RST
DISP CLK
DISP DI
DISP DO
DISP RDY
DISP EN
HPDET
IPDET
MRIN
1W WP
EX CK
EX ST
EX OE
EX DT0
EX DT1
V+5_6ST
V+5_6U
GNDU
GNDU
MICDET
SR IN
RMC
SR OUT
FLAC1
FLAC2
-VF
CN101 CKS3394
GNDU
CN102 52147-0910
-VF
FLAC2
FLAC1
IPodPOWER
FANSTOP
FANDRIVE
V+5_6U
GNDU
GNDU
C 1/3
L CN2301
Z 3502


AJ CN5703
V+5UM
GNDU
GNDU
V+5_6U
DCDET
OLDET
TEMP2
TEMP1
RYA
RYHP
RYCS
RYB
GNDST
GNDST
V+5_6ST
RYAC
W UP
HPDET
WATT_S
V+5UMIN
CN103
CKS3384
V+5_6ST
V+5_6S
V+5_6U
L102
ATL7002
R161
0
GNDU
(GNDST)
RYAC
ACWP
HPDET
D106
UDZS5R1(B)
C119
10/50 AT
R163
stby
R162
22k
TEMP2
R164 1M
C120
0.047/25
YB
R165
stby
V+5UM
R166 1M
C121
0.047/25
YB
D104
DAP202U
D105
DAN202U
R167 stby
R168
stby
OLDET
UMB1N Q106 (1/2)
E2
C2
B2
UMB1N Q106 (2/2)
E
C
B
UMB1N Q105 (1/2)
E2
C2
B2
Q105 (2/2)
E
C
B
UMB1N
RYAF
RYHP
RYCS
RYBS
V+5UM
C262
0.01
R262 4.7K
R263 10k
IC253
BR24L16FV
VCC
WP
SCL
SDA
A0
A1
A2
GND
I2CK
I2DT
R264 470
R265 470
V+5US
RDS DECODER
C253
560p CH
C252
stby
AWX8817 ONLY
L251
STBY
C251
10/50
CIN
FL OUT
A.GND
A.VCC
COMP.IN
VREF
RDS DATA
QUALITY
LC72725KM
IC251
TEST
MODE
D.GND
D.VCC
OSC I
OSC O
RESET
RDS CK
C259
stby
C258
stby
R254
1k
C260
4700p YB
R253
1k
GNDT
RDSDT
FMDET
R252
1k
RDSCK
RDSXM5
100/10
C254
C255
1000p
4.332MHz
X251
ASS7004
C256
27p CH
C257
27p CH
R251
AWX8816 470K
AWX8817 47K
STBY
CN104
XKP3065
MEXST
MEXOE
MEXDT1
MEXCK
OSDT
OSCS
OSRST
SBMUTE
AMUTE
NECK8
NECK6
MEXP ST
MEXP OE
MEXP DT
OSD/MEXP CK
OSD DT
OSD CS
OSD RST
SBMUTE
AMUTE
NECK8
NECK6
K CN1402
SIRIUS/XM SW
AWX8816 ONLY
V+5US
R261
270k
C261
0.1/16
YB
GNDU
R255
220
R256
220
R257
220
R258
220
R259
100k
R260
100k
XM_SW
SIRIUS_SW
IC252
TC74VHC125FTS1
GNDU
V+5UM
Q101
RT1N431M
LOW COMS
R116
47k
R128 2.2k
R129 2.2k
C2
Q111
2SA1576A(RS)
GNDU
R178
47
C125
470/6.3
GNDU
Q102
RT1P241M
AWX8816
ONLY
XMRMU
MRMUTE
V+5US
XAMU
Q103(1/2)
RN2901
Q103(2/2)
RN2901
D101
DAN202U
AMUTE
12DET
SDET
23DET
MDET
IPDET
MRMUTE
MRDT
VLCK
VLDT
C 3/3
V+5US
C139
560p
R172
560
IC103
BU4094BCFV
STB
DATA
CLOCK
232SW
NECK6
NECK8
12TRG1
VSS
VDD
OE
12VON
XMPOW
MRSP
QS'
QS
R196
stby
MEXOE
12VON
C 2/3
MRSP
R194 100
R195 stby
MEXDT0
Q109
RT1P241M
Q110
RT1P241M
R170
47k
12TRG1
RDS SW / XMRST
PORT EXPANDER
C118
0.1/16
YB
AWX8816
ONLY
R171
100k
RDSXM5
R169
47k
XMPOW
XSBMU
V+5US
Q104
(1/2)
UMB1N
Q104(2/2)
UMB1N
D107
DAN202U
SBMUTE
MUTE CONTROL
MRSP
IC109 (4/4)
TC74VHCT32AFT
SIRIUS_TX
SIRIUS_RX
SIRIUS_RSET
AWX8816 ONLY
J101
J102
SIRIUS_TX
SIRIUS_RX
SIRIUS_RESET
PF03GG-Q12 (1/2)
PF03GG-Q12 (2/2)
C 3/3
232SW
232SW
XMRX5
XMTX5
C 3/3 (XM)
XMERR
XMPOW
XDMUTE
C 2/3

(*) MARKS		SIMUKE1		SIMUKE2	
MODEL		R151	R152	R153	R154
AWX8816	91TXH/KU 9120TXH/KU	47k	47k	47k	-
AWX8817	LX50/HY	47k	-	47k	-

NOTE

1.RESISTORS

Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

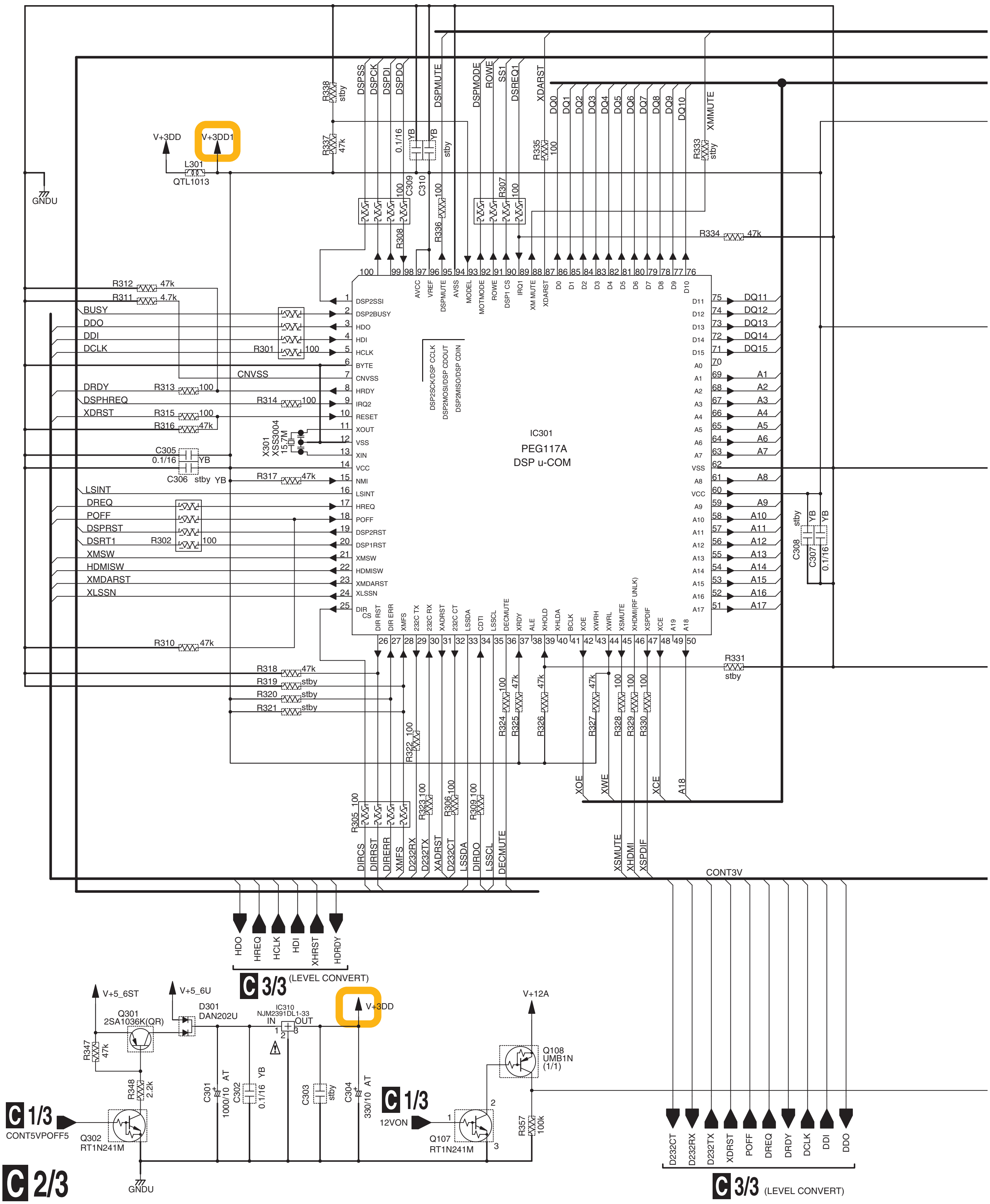
2.CAPACITORS

Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

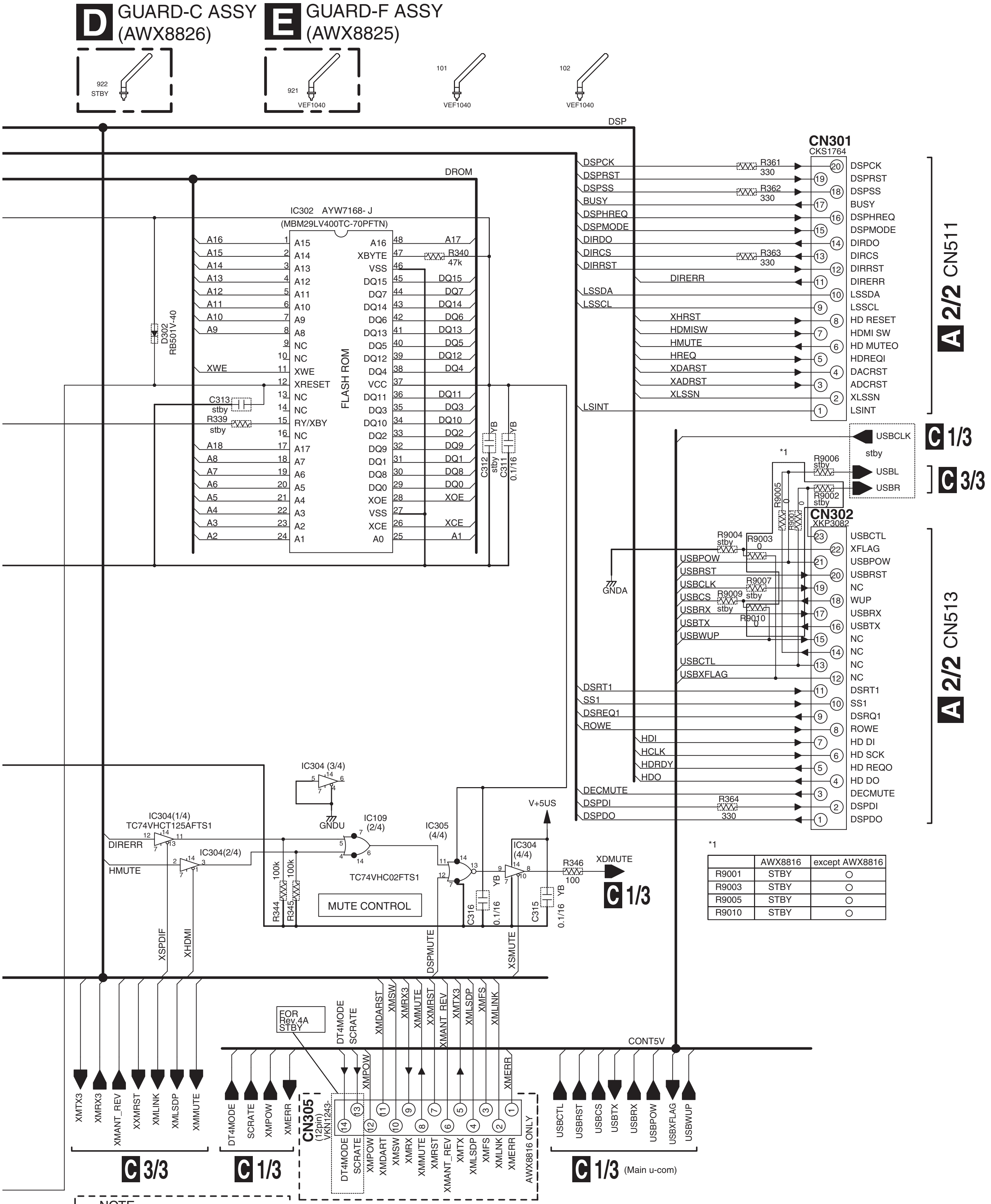
	XM_SW	SIRIUS_SW
L	XM ON	SIRIUS ON
H	XM OFF	SIRIUS OFF

10.4 MAIN CONTROL (2/3), GUARD-C and GUARD-F ASSYS

C 2/3 MAIN CONTROL ASSY (VSX-LX50 : AWX8817)
(VSX-91TXH, VSX-9120TXH : AWX8816)



IC301
PEG117A
DSP u-COM
V+3DD
V+3DD1
L301
QTL1013
GNDU
R338 stby
R337 47k
DSPSS
DSPCK
DSPDI
DSPDO
DSPMUTE
0.1/16
YB
C309
C310
stby
DSPMODE
ROWE
SS1
DSREQ1
XDARST
R335 100
R307 100
R308 100
R336 100
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
XMMUTE
R333 stby
R334 47k
R312 47k
R311 4.7k
BUSY
DDO
DDI
DCLK
R301 100
CNVSS
DRDY
R313 100
DSPHREQ
R314 100
XDRST
R315 100
R316 47k
X301 XSS3004 15.7M
C305 0.1/16 YB
C306 stby YB
R317 47k
LSINT
DREQ
POFF
DSPRST
DSRT1
R302 100
XMSW
HDMISW
XMDARST
XLSSN
R310 47k
R318 47k
R319 stby
R320 stby
R321 stby
R322 100
1 DSP2SSI
2 DSP2BUSY
3 HDO
4 HDI
5 HCLK
6 BYTE
7 CNVSS
8 HRDY
9 IRQ2
10 RESET
11 XOUT
12 VSS
13 XIN
14 VCC
15 NMI
16 LSINT
17 HREQ
18 POFF
19 DSP2RST
20 DSP1RST
21 XMSW
22 HDMISW
23 XMDARST
24 XLSSN
25 DIR CS
26 DIR RST
27 DIR ERR
28 XMFS
29 232C TX
30 232C RX
31 XADRST
32 232C CT
33 LSSDA
34 CDTI
35 LSSCL
36 DECMUTE
37 XRDY
38 ALE
39 XHOLD
40 XHLDA
41 BCLK
42 XOE
43 XWRH
44 XWRL
45 XSMUTE
46 XHDMI(RF UNLK)
47 XSPDIF
48 XCE
49 A19
50 A18
51 A17
52 A16
53 A15
54 A14
55 A13
56 A12
57 A11
58 A10
59 A9
60 VCC
61 A8
62 VSS
63 A7
64 A6
65 A5
66 A4
67 A3
68 A2
69 A1
70 A0
71 D15
72 D14
73 D13
74 D12
75 D11
76 D10
77 D9
78 D8
79 D7
80 D6
81 D5
82 D4
83 D3
84 D2
85 D1
86 D0
87 XDARST
88 XM MUTE
89 IRQ1
90 DSP1 CS
91 ROWE
92 MOTMODE
93 MODEL
94 AVSS
95 DSPMUTE
96 VREF
97 AVCC
98
99
100
DSP2SCK/DSP CCLK
DSP2MOSI/DSP CDOUT
DSP2MISO/DSP CDIN
DQ11
DQ12
DQ13
DQ14
DQ15
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
C308 stby
C307 0.1/16 YB
R331 stby
R324 100
R325 47k
R326 47k
R327 47k
R328 100
R329 100
R330 100
XOE
XWE
XCE
A18
R305 100
R323 100
R306 100
R309 100
DIRCS
DIRRST
DIRERR
XMFS
D232RX
D232TX
XADRST
D232CT
LSSDA
DIRDO
LSSCL
DECMUTE
XSMUTE
XHDMI
XSPDIF
CONT3V
HDO
HREQ
HCLK
HDI
XHRST
HDRDY
C 3/3 (LEVEL CONVERT)
V+5_6ST
V+5_6U
Q301 2SA1036K(QR)
D301 DAN202U
IC310 NJM2391DL1-33
IN
OUT
1 2 3
V+3DD
V+12A
R347 47k
R348 2.2k
C301 1000/10 AT
C302 0.1/16 YB
C303 stby
C304 330/10 AT
Q108 UMB1N (1/1)
C 1/3
CONT5VPOFF5
Q302 RT1N241M
C 1/3
12VON
Q107 RT1N241M
R357 100k
GNDU
D232CT
D232RX
D232TX
XDRST
POFF
DREQ
DRDY
DCLK
DDI
DDO
C 3/3 (LEVEL CONVERT)
C 2/3


D GUARD-C ASSY (AWX8826)
922 STBY
E GUARD-F ASSY (AWX8825)
921 VEF1040
101 VEF1040
102 VEF1040
DSP
DROM
IC302 AYW7168- J
(MBM29LV400TC-70PFTN)
FLASH ROM
A16 A15 A14 A13 A12 A11 A10 A9 XWE A18 A8 A7 A6 A5 A4 A3 A2
A15 A14 A13 A12 A11 A10 A9 A8 NC NC XWE XRESET NC NC RY/XBY NC A17 A7 A6 A5 A4 A3 A2 A1
A16 XBYTE VSS DQ15 DQ7 DQ14 DQ6 DQ13 DQ5 DQ12 DQ4 VCC DQ11 DQ3 DQ10 DQ2 DQ9 DQ1 DQ8 DQ0 XOE VSS XCE A0
A17 R340 47k DQ15 DQ7 DQ14 DQ6 DQ13 DQ5 DQ12 DQ4 DQ11 DQ3 DQ10 DQ2 DQ9 DQ1 DQ8 DQ0 XOE XCE A1
D302 RB501V-40
C313 stby
R339 stby
C312 stby YB
C311 0.1/16 YB
CN301 CKS1764
DSPCK DSPRST DSPSS BUSY DSPHREQ DSPMODE DIRDO DIRCS DIRRST DIRERR LSSDA LSSCL XHRST HDMISW HMUTE HREQ XDARST XADRST XLSSN LSINT
R361 330
R362 330
R363 330
DSPCK DSPRST DSPSS BUSY DSPHREQ DSPMODE DIRDO DIRCS DIRRST DIRERR LSSDA LSSCL HD RESET HDMI SW HD MUTEO HDREQI DACRST ADCRST XLSSN LSINT
A 2/2 CN511
USBCLK stby
C 1/3
USBL USBR
C 3/3
*1
R9006 stby
R9002 stby
R9005 0
R9001 0
CN302 XKP3082
R9004 stby
R9003 0
R9007 stby
R9009 stby
R9010 0
GNDA
USBPOW USBRST USBCLK USBCS USBRX USBTX USBWUP USBCTL USBXFLAG
USBCTL XFLAG USBPOW USBRST NC WUP USBRX USBTX NC NC NC NC DSRT1 SS1 DSRQ1 ROWE HD DI HD SCK HD REQO HD DO DECMUTE DSPDI DSPDO
DSRT1 SS1 DSREQ1 ROWE HDI HCLK HDRDY HDO DECMUTE DSPDI DSPDO
R364 330
A 2/2 CN513
IC304 (3/4)
GNDU
IC304(1/4) TC74VHCT125AFTS1
IC304(2/4)
DIRERR
HMUTE
IC109 (2/4)
TC74VHC02FTS1
IC305 (4/4)
IC304 (4/4)
V+5US
R346 100
XDMUTE
C 1/3
R344 100k
R345 100k
MUTE CONTROL
C316 0.1/16 YB
C315 0.1/16 YB
XSPDIF XHDMI DSPMUTE XSMUTE
FOR Rev.4A STBY
DT4MODE SCRATE XMPOW XMDARST XMSW XMRX3 XMMUTE XMRST XMANT_REV XMTX3 XMLSDP XMFS XMLINK XMERR
CONT5V
XMTX3 XMRX3 XMANT_REV XXMRST XMLINK XMLSDP XMMUTE
C 3/3
DT4MODE SCRATE XMPOW XMERR
C 1/3
CN305 (12pin) VKN1243-
DT4MODE SCRATE XMPOW XMDART XMSW XMRX XMMUTE XMRST XMANT_REV XMTX XMLSDP XMFS XMLNK XMERR
AWX8816 ONLY
TO DSP MODULE(XM)
G 4/4 CN953
USBCTL USBRST USBCS USBTX USBRX USBPOW USBXFLAG USBWUP
C 1/3 (Main u-com)

*1

	AWX8816	except AWX8816
R9001	STBY	○
R9003	STBY	○
R9005	STBY	○
R9010	STBY	○

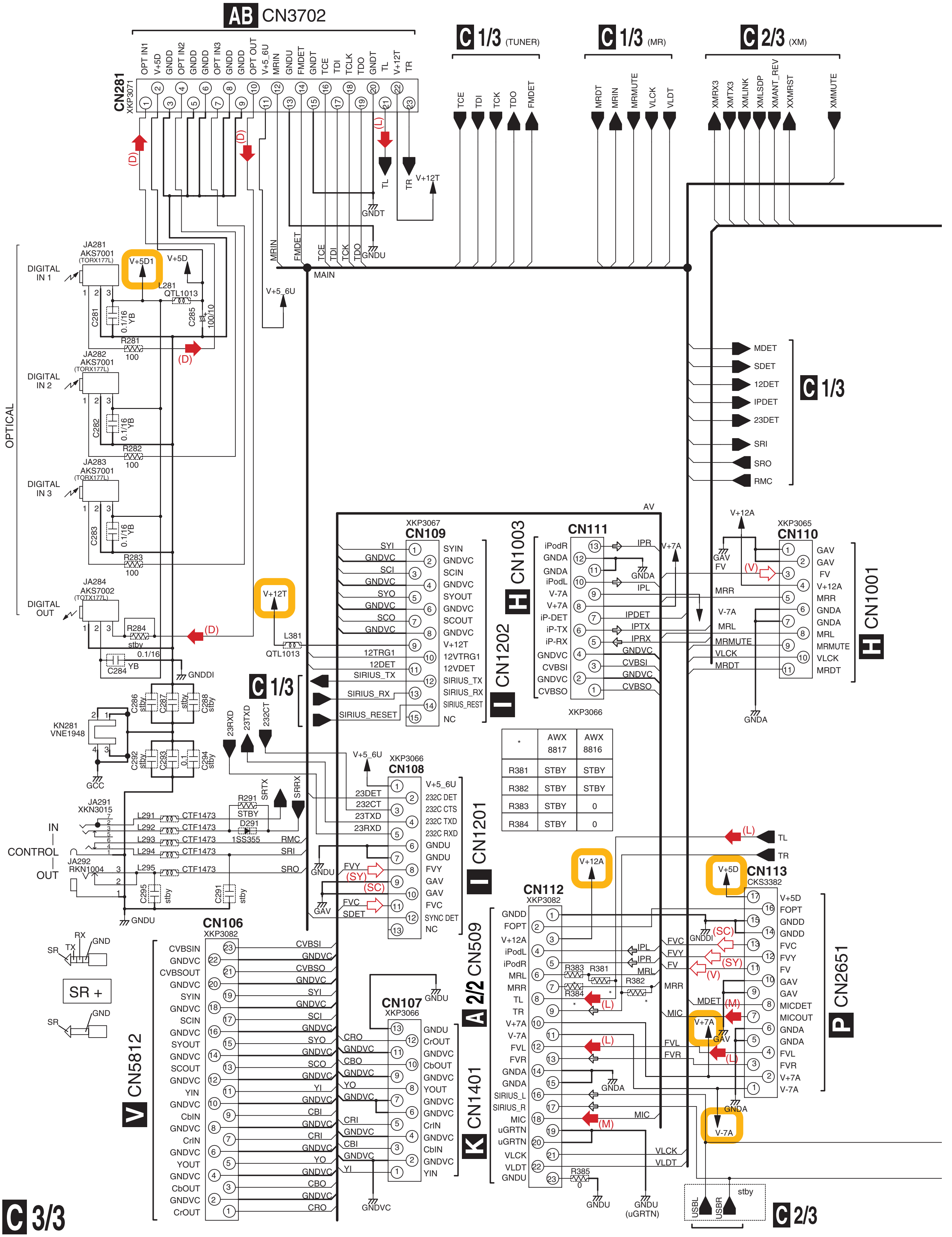
NOTE

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

C 2/3

10.5 MAIN CONTROL ASSY (3/3)

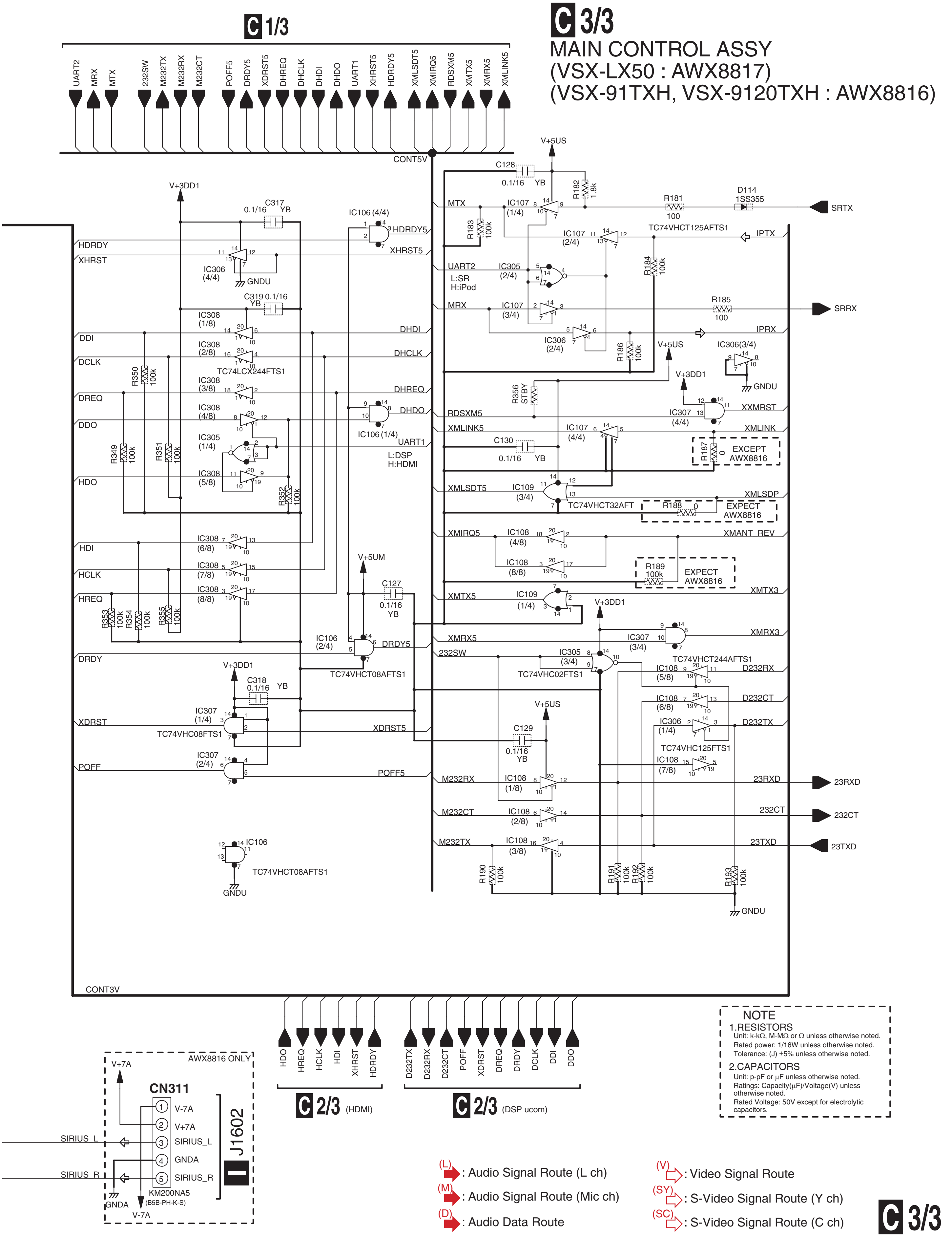


AB CN3702
C 1/3 (TUNER)
C 1/3 (MR)
C 2/3 (XM)
CN281 XKP3071
OPT IN1
V+5D
GNDD
OPT IN2
GNDD
GNDD
OPT IN3
GNDD
GNDD
OPT OUT
V+5_6U
MRIN
GNDU
FMDET
GNDT
TCE
TDI
TCLK
TDO
GNDT
TL
V+12T
TR
TCE
TDI
TCK
TDO
FMDET
MRDT
MRIN
MRMUTE
VLCK
VLDT
XMRX3
XMTX3
XMLINK
XMLSDP
XMANT_REV
XXMRST
XMMUTE
MAIN
GNDT
GNDU
V+5_6U
OPTICAL
DIGITAL IN 1
DIGITAL IN 2
DIGITAL IN 3
DIGITAL OUT
JA281 AKS7001 (TORX177L)
JA282 AKS7001 (TORX177L)
JA283 AKS7001 (TORX177L)
JA284 AKS7002 (TOTX177L)
V+5D1
V+5D
L281 QTL1013
C281 0.1/16 YB
C285 100/10
R281 100
R282 100
R283 100
R284 stby
C282 0.1/16 YB
C283 0.1/16 YB
C284 0.1/16 YB
V+12T
L381 QTL1013
GNDDI
KN281 VNE1948
C286 stby
C287
C288 stby
C292 stby
C293
C294 stby
GCC
(D)
(L)
MDET
SDET
12DET
IPDET
23DET
SRI
SRO
RMC
C 1/3
AV
XKP3067 CN109
SYI
GNDVC
SCI
GNDVC
SYO
GNDVC
SCO
GNDVC
12TRG1
12DET
SIRIUS_TX
SIRIUS_RX
SIRIUS_RESET
SYIN
SCIN
SYOUT
SCOUT
V+12T
12VTRG1
12VDET
SIRIUS_TX
SIRIUS_RX
SIRIUS_REST
NC
H CN1003
I CN1202
CN111
iPodR
GNDA
iPodL
V-7A
V+7A
iP-DET
iP-TX
iP-RX
GNDVC
CVBSI
CVBSO
IPR
IPL
IPDET
IPTX
IPRX
XKP3066
V+12A
XKP3065 CN110
GAV
FV
V+12A
MRR
GNDA
MRL
MRMUTE
VLCK
MRDT
H CN1001
(V)
23RXD
23TXD
232CT
V+5_6U
XKP3066 CN108
23DET
232CT
23TXD
23RXD
232C DET
232C CTS
232C TXD
232C RXD
FVY
GAV
FVC
SYNC DET
SDET
(SY)
(SC)
I CN1201
JA291 XKN3015
IN
CONTROL
OUT
JA292 RKN1004
L291 CTF1473
L292 CTF1473
L293 CTF1473
L294 CTF1473
L295 CTF1473
R291 STBY
D291 1SS355
SRTX
SRRX
C295 stby
C291 stby
GNDU
SR
TX
RX
GND
SR +
CN106 XKP3082
CVBSIN
CVBSOUT
SYIN
SCIN
SYOUT
SCOUT
YIN
CbIN
CrIN
YOUT
CbOUT
CrOUT
V CN5812
CN107 XKP3066
CRO
CBO
YO
CRI
CBI
YI
CrOUT
CbOUT
YOUT
CrIN
CbIN
YIN
GNDVC
A 2/2 CN509
K CN1401
CN112 XKP3082
GNDD
FOPT
V+12A
iPodL
iPodR
MRL
MRR
TL
TR
V+7A
V-7A
FVL
FVR
GNDA
SIRIUS_L
SIRIUS_R
MIC
uGRTN
VLCK
VLDT
GNDU
R383
R381
R382
R384
R385 0
(M)
GNDU (uGRTN)
CN113 CKS3382
V+5D
FOPT
GNDD
FVC
FVY
FV
GAV
MICDET
MICOUT
GNDA
FVL
FVR
V+7A
V-7A
P CN2651
MIC
MDET
USBL
USBR
stby
C 2/3
C 3/3

*	AWX 8817	AWX 8816
R381	STBY	STBY
R382	STBY	STBY
R383	STBY	0
R384	STBY	0

C 3/3

MAIN CONTROL ASSY
(VSX-LX50 : AWX8817)
(VSX-91TXH, VSX-9120TXH : AWX8816)

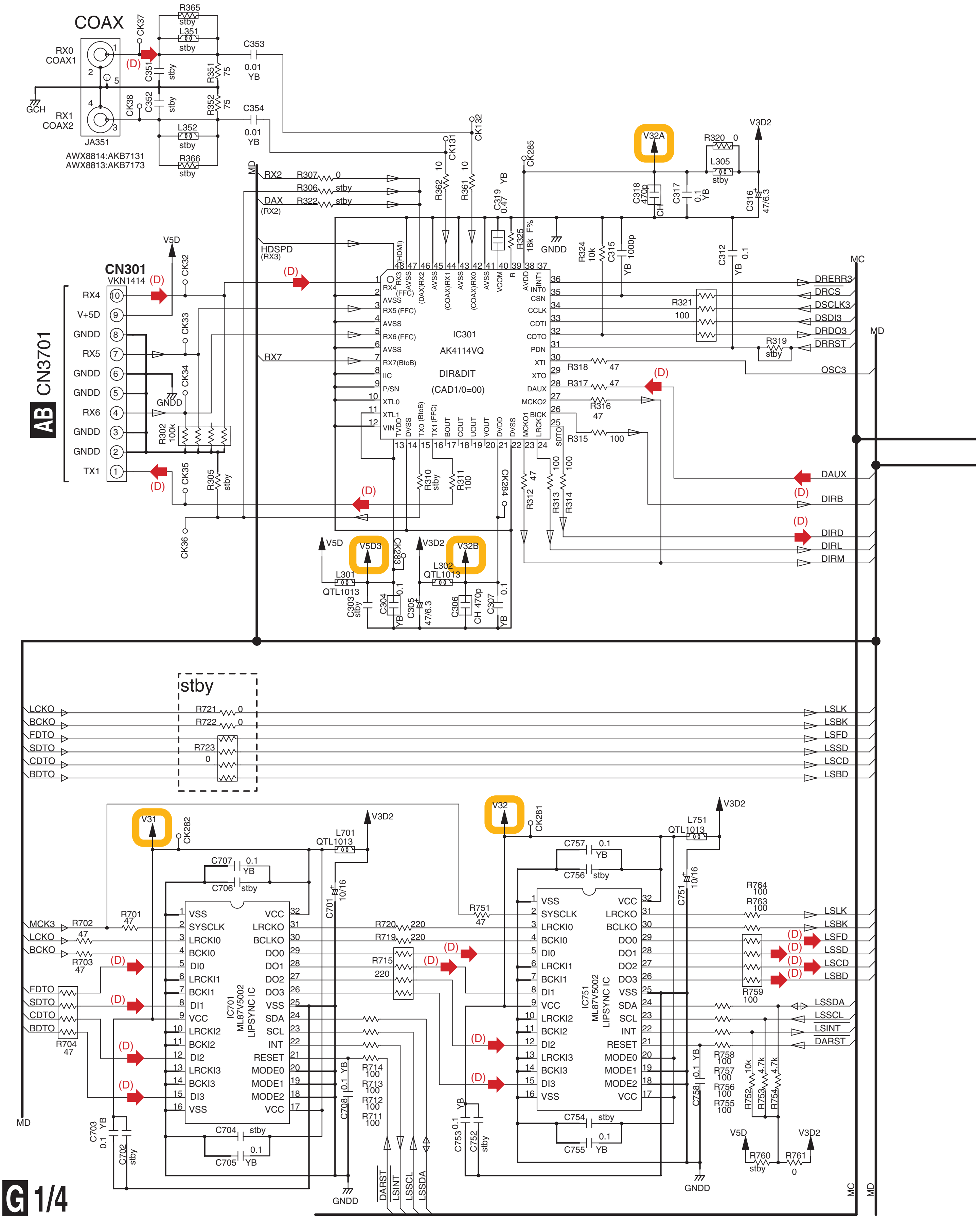

C 1/3
UART2
MRX
MTX
232SW
M232TX
M232RX
M232CT
POFF5
DRDY5
XDRST5
DHREQ
DHCLK
DHDI
DHDO
UART1
XHRST5
HDRDY5
XMLSDT5
XMIRQ5
RDSXM5
XMTX5
XMRX5
XMLINK5
CONT5V
V+3DD1
C317
0.1/16 YB
IC106 (4/4)
HDRDY5
XHRST5
HDRDY
XHRST
IC306 (4/4)
GNDU
C319 0.1/16 YB
IC308 (1/8)
DDI
DHDI
IC308 (2/8)
DCLK
DHCLK
TC74LCX244FTS1
R350 100k
IC308 (3/8)
DREQ
DHREQ
IC308 (4/8)
DDO
DHDO
IC106 (1/4)
UART1
L:DSP
H:HDMI
IC305 (1/4)
R349 100k
R351 100k
IC308 (5/8)
HDO
R352 100k
IC308 (6/8)
HDI
IC308 (7/8)
HCLK
IC308 (8/8)
HREQ
R353 100k
R354 100k
R355 100k
V+5UM
C127
0.1/16 YB
IC106 (2/4)
DRDY5
DRDY
TC74VHCT08AFTS1
V+3DD1
C318
0.1/16 YB
IC307 (1/4)
XDRST
TC74VHC08FTS1
XDRST5
IC307 (2/4)
POFF
POFF5
IC106
TC74VHCT08AFTS1
GNDU
CONT3V
V+5US
C128
0.1/16 YB
R182 1.8k
MTX
IC107 (1/4)
R181 100
D114 1SS355
SRTX
R183 100k
IC107 (2/4)
TC74VHCT125AFTS1
IPTX
UART2
L:SR
H:iPod
IC305 (2/4)
R184 100k
MRX
IC107 (3/4)
R185 100
SRRX
IPRX
IC306 (2/4)
R186 100k
V+5US
IC306(3/4)
GNDU
V+3DD1
R356 STBY
RDSXM5
IC307 (4/4)
XXMRST
XMLINK5
IC107 (4/4)
XMLINK
C130
0.1/16 YB
R187 0
EXCEPT AWX8816
XMLSDT5
IC109 (3/4)
TC74VHCT32AFT
R188 0
XMLSDP
EXCEPT AWX8816
XMIRQ5
IC108 (4/8)
XMANT_REV
IC108 (8/8)
R189 100k
EXPECT AWX8816
XMTX5
IC109 (1/4)
XMTX3
V+3DD1
XMRX5
IC307 (3/4)
XMRX3
232SW
IC305 (3/4)
TC74VHC02FTS1
TC74VHCT244AFTS1
IC108 (5/8)
D232RX
IC108 (6/8)
D232CT
V+5US
IC306 (1/4)
D232TX
C129
0.1/16 YB
TC74VHC125FTS1
IC108 (7/8)
M232RX
IC108 (1/8)
23RXD
M232CT
IC108 (2/8)
232CT
M232TX
IC108 (3/8)
23TXD
R190 100k
R191 100k
R192 100k
R193 100k
GNDU
HDO
HREQ
HCLK
HDI
XHRST
HDRDY
C 2/3 (HDMI)
D232TX
D232RX
D232CT
POFF
XDRST
DREQ
DRDY
DCLK
DDI
DDO
C 2/3 (DSP ucom)
AWX8816 ONLY
V+7A
CN311
① V-7A
② V+7A
③ SIRIUS_L
④ GNDA
⑤ SIRIUS_R
SIRIUS_L
SIRIUS_R
GNDA
V-7A
KM200NA5
(B5B-PH-K-S)
J1602
I

NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

(L) ➡ : Audio Signal Route (L ch)
(M) ➡ : Audio Signal Route (Mic ch)
(D) ➡ : Audio Data Route
(V) ⇨ : Video Signal Route
(SY) ⇨ : S-Video Signal Route (Y ch)
(SC) ⇨ : S-Video Signal Route (C ch)

10.6 DSP ASSY (1/4)

G 1/4 DSP ASSY (VSX-LX50 : AWX8814) (VSX-91TXH, VSX-9120TXH : AWX8813)


A
B
C
D
E
F
COAX
RX0
COAX1
RX1
COAX2
GCH
JA351
AWX8814:AKB7131
AWX8813:AKB7173
CK37
CK38
R365 stby
L351 stby
C351 stby
C352 stby
R351 75
R352 75
L352 stby
R366 stby
C353 0.01 YB
C354 0.01 YB
CK131
CK132
CK285
MD
RX2
R307 0
R306 stby
R322 stby
DAX (RX2)
HDSPD (RX3)
RX7
R362 10
R361 10
C319 0.47 YB
R325 18k F%
GNDD
V32A
V3D2
R320 0
L305 stby
C318 470p CH
C317 0.1 YB
C316 47/6.3
R324 10k
C315 1000p YB
C312 0.1 YB
IC301
AK4114VQ
DIR&DIT
(CAD1/0=00)
RX4 (FFC)
AVSS
RX5 (FFC)
RX6 (FFC)
RX7(BtoB)
IIC
P/SN
XTL0
XTL1
VIN
INT0
CSN
CCLK
CDTI
CDTO
PDN
XTI
XTO
DAUX
MCKO2
BICK
SDTO
LRCK
MCKO1
DVSS
DVDD
VOUT
UOUT
COUT
BOUT
TX1 (FFC)
TX0 (BtoB)
DVSS
TVDD
(HDMI) RX3
(DAX)RX2
(COAX)RX1
(COAX)RX0
VCOM
R
AVDD
INT1
R321 100
R319 stby
R318 47
R317 47
R316 47
R315 100
MC
DRERR3
DRCS
DSCLK3
DSDI3
DRDO3
DRRST
OSC3
DAUX
DIRB
DIRD
DIRL
DIRM
(D)
CN301
VKN1414
AB CN3701
RX4
V+5D
GNDD
RX5
GNDD
GNDD
RX6
GNDD
GNDD
TX1
V5D
CK32
CK33
CK34
CK35
CK36
R302 100k
R305 stby
R310 stby
R311 100
CK284
R312 47
R313 100
R314 100
V5D3
V32B
CK283
L301 QTL1013
L302 QTL1013
C303 stby
C304 0.1 YB
C305 47/6.3
C306 470p CH
C307 0.1 YB
stby
LCKO
BCKO
FDTO
SDTO
CDTO
BDTO
R721 0
R722 0
R723 0
LSLK
LSBK
LSFD
LSSD
LSCD
LSBD
V31
CK282
L701 QTL1013
C707 0.1 YB
C706 stby
C701 10/16
MCK3
R702 47
R701 47
R703 47
R704 47
IC701
ML87V5002
LIPSYNC IC
VSS
SYSCLK
LRCKI0
BCKI0
DI0
LRCKI1
BCKI1
DI1
VCC
LRCKI2
BCKI2
DI2
LRCKI3
BCKI3
DI3
LRCKO
BCLKO
DO0
DO1
DO2
DO3
SDA
SCL
INT
RESET
MODE0
MODE1
MODE2
C703 0.1 YB
C702 stby
C704 stby
C705 0.1 YB
C708 0.1 YB
R720 220
R719 220
R715 220
R714 100
R713 100
R712 100
R711 100
GNDD
DARST
LSINT
LSSCL
LSSDA
V32
CK281
R751 47
IC751
ML87V5002
LIPSYNC IC
C757 0.1 YB
C756 stby
L751 QTL1013
C751 10/16
C754 stby
C755 0.1 YB
C753 0.1 YB
C752 stby
C758 0.1 YB
R764 100
R763 100
R759 100
R758 100
R757 100
R756 100
R755 100
R752 10k
R753 4.7k
R754 4.7k
LSSDA
LSSCL
LSINT
DARST
R760 stby
R761 0
MC
MD
VSX-LX50

G 1/4

(D) : Audio Data Route

(L) : Audio Signal Route (L ch)

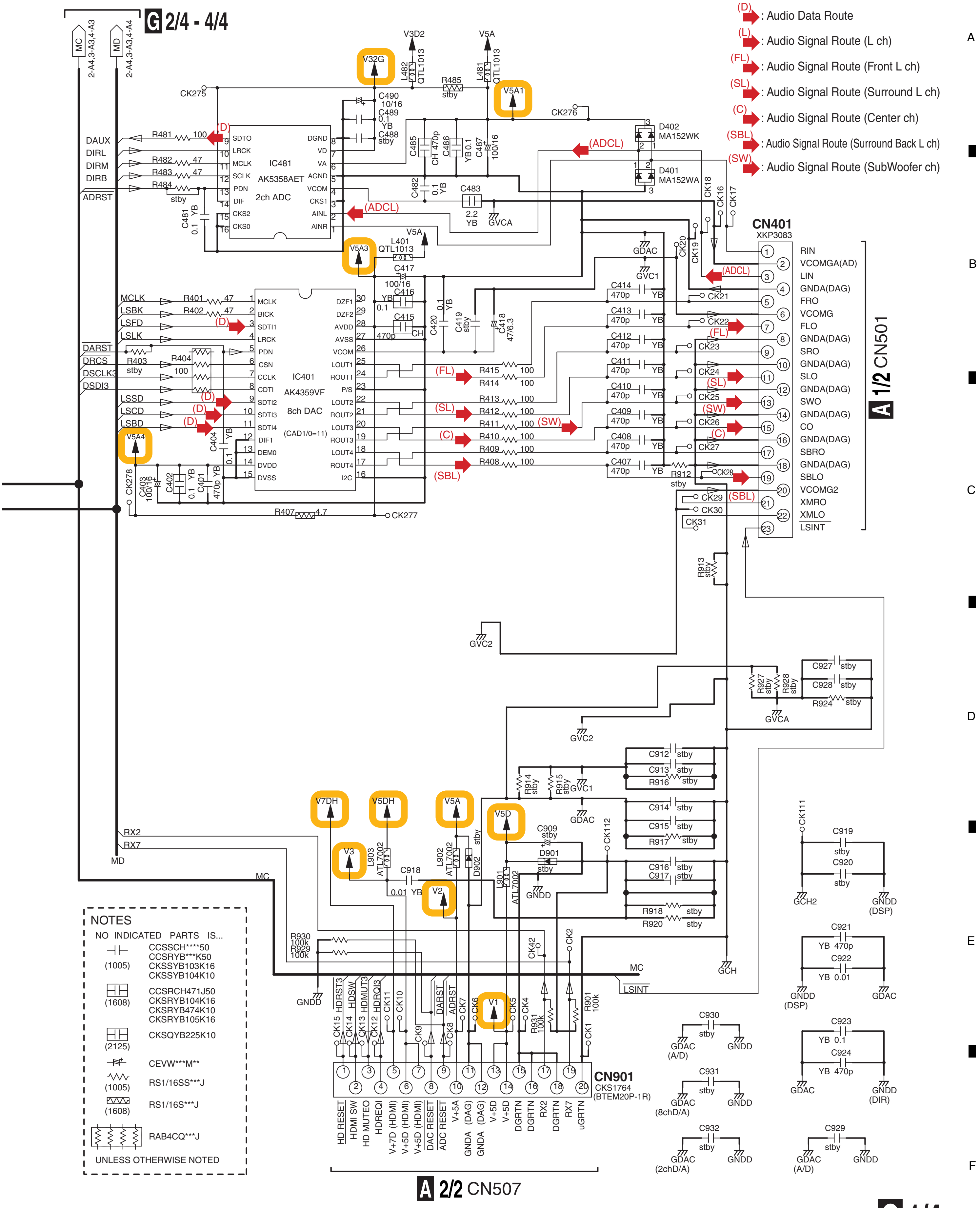
(FL) : Audio Signal Route (Front L ch)

(SL) : Audio Signal Route (Surround L ch)

(C) : Audio Signal Route (Center ch)

(SBL) : Audio Signal Route (Surround Back L ch)

(SW) : Audio Signal Route (SubWoofer ch)


G 2/4 - 4/4
MC 2-A4,3-A3,4-A3
MD 2-A4,3-A3,4-A4
V3D2
V5A
V32G
V5A1
L482 QTL1013
L481 QTL1013
R485 stby
CK275
CK276
C490 10/16
C489 0.1 YB
C488 stby
C485 CH 470p
C486 YB 0.1
C487 100/16
D402 MA152WK
D401 MA152WA
(ADCL)
DAUX
DIRL
DIRM
DIRB
ADRST
R481 100
R482 47
R483 47
R484 stby
C481 0.1 YB
IC481
AK5358AET
2ch ADC
SDTO
LRCK
MCLK
SCLK
PDN
DIF
CKS2
CKS0
DGND
VD
VA
AGND
VCOM
CKS1
AINL
AINR
C482 0.1 YB
C483 2.2 YB
GVCA
V5A3
L401 QTL1013
C417 100/16
C416 YB 0.1
C415 470p CH
C420 0.1 YB
C419 stby
C418 47/6.3
MCLK
LSBK
LSFD
LSLK
DARST
DRCS
DSCLK3
DSDI3
LSSD
LSCD
LSBD
R401 47
R402 47
R403 stby
R404 100
IC401
AK4359VF
8ch DAC
(CAD1/0=11)
MCLK
BICK
SDTI1
LRCK
PDN
CSN
CCLK
CDTI
SDTI2
SDTI3
SDTI4
DIF1
DEM0
DVDD
DVSS
DZF1
DZF2
AVDD
AVSS
VCOM
LOUT1
ROUT1
P/S
LOUT2
ROUT2
LOUT3
ROUT3
LOUT4
ROUT4
I2C
V5A4
C404 0.1 YB
CK278
C403 100/16
C402 0.1 YB
C401 470p YB
R407 4.7
CK277
R415 100
R414 100
R413 100
R412 100
R411 100
R410 100
R409 100
R408 100
(FL)
(SL)
(SW)
(C)
(SBL)
GDAC
GVC1
C414 470p YB
C413 470p YB
C412 470p YB
C411 470p YB
C410 470p YB
C409 470p YB
C408 470p YB
C407 470p YB
R912 stby
CK16
CK17
CK18
CK19
CK20
CK21
CK22
CK23
CK24
CK25
CK26
CK27
CK28
CK29
CK30
CK31
CN401
XKP3083
RIN
VCOMGA(AD)
LIN
GNDA(DAG)
FRO
VCOMG
FLO
GNDA(DAG)
SRO
GNDA(DAG)
SLO
GNDA(DAG)
SWO
GNDA(DAG)
CO
GNDA(DAG)
SBRO
GNDA(DAG)
SBLO
VCOMG2
XMRO
XMLO
LSINT
A 1/2 CN501
R913 stby
GVC2
R927 stby
R928 stby
C927 stby
C928 stby
R924 stby
GVCA
GVC2
C912 stby
C913 stby
R916 stby
R914 stby
R915 stby
GVC1
GDAC
C914 stby
C915 stby
R917 stby
C909 stby
D901 stby
GNDD
C916 stby
C917 stby
R918 stby
R920 stby
CK112
CK111
C919 stby
C920 stby
GCH2
GNDD (DSP)
C921 YB 470p
C922 YB 0.01
GNDD (DSP)
GDAC
C923 YB 0.1
C924 YB 470p
GDAC
GNDD (DIR)
C930 stby
GDAC (A/D)
GNDD
C931 stby
GDAC (8chD/A)
GNDD
C932 stby
GDAC (2chD/A)
GNDD
C929 stby
GDAC (A/D)
GNDD
V7DH
V5DH
V5A
V5D
V3
V2
V1
L903 ATL7002
L902 ATL7002
L901 ATL7002
D902 stby
C918 0.01 YB
RX2
RX7
MD
MC
R930 100k
R929 100k
CK42
CK2
MC
LSINT
GCH
GNDD
CK15 HDRST3
CK14 HDSW
CK13 HDMUT3
CK12 HDRQI3
CK11
CK10
CK9
DARST
ADRST
CK8
CK7
CK6
CK5
CK4
R931 100k
R901 100k
CK1
CN901
CKS1764
(BTEM20P-1R)
HD RESET
HDMI SW
HD MUTEO
HDREQI
V+7D (HDMI)
V+5D (HDMI)
V+5D (HDMI)
DAC RESET
ADC RESET
V+5A
GNDA (DAG)
GNDA (DAG)
V+5D
V+5D
DGRTN
DGRTN
RX2
DGRTN
RX7
uGRTN
A 2/2 CN507

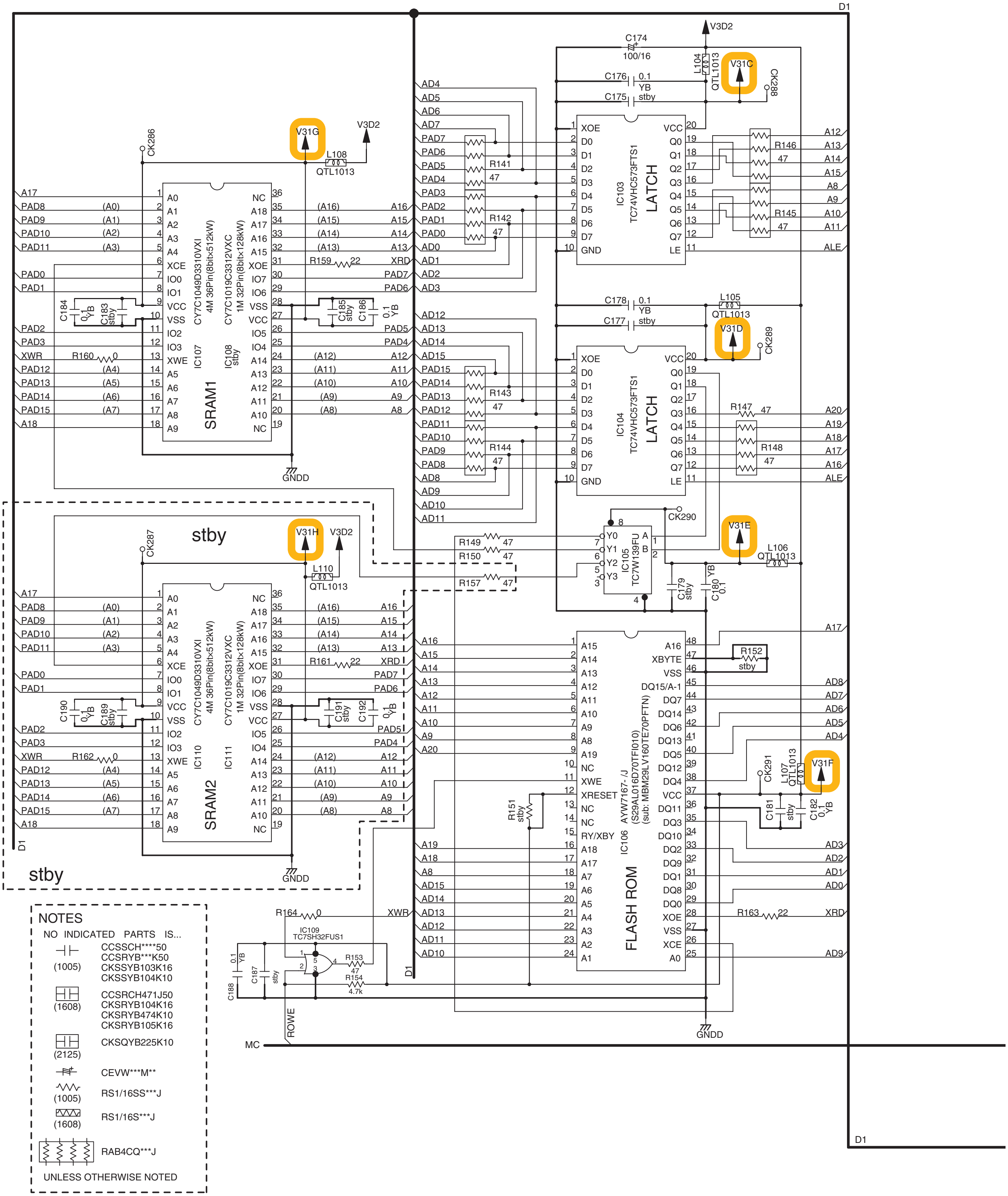
NOTES

NO INDICATED PARTS IS...

⊣⊢ (1005)	CCSSCH****50 CCSRYB***K50 CKSSYB103K16 CKSSYB104K10
(1608)	CCSRCH471J50 CKSRYB104K16 CKSRYB474K16 CKSRYB105K16
(2125)	CKSQYB225K10
	CEVW***M**
(1005)	RS1/16SS***J
(1608)	RS1/16S***J
	RAB4CQ***J

UNLESS OTHERWISE NOTED

10.7 DSP ASSY (2/4)



D1
V3D2
C174
100/16
C176 0.1 YB
C175 stby
L104 QTL1013
V31C
CK288
V31G
V3D2
L108 QTL1013
CK286
IC107 CY7C1049D3310VXI 4M 36Pin(8bit×512kW)
IC108 stby CY7C1019C3312VXC 1M 32Pin(8bit×128kW)
SRAM1
R159 22
R160 0
C184 0.1 YB
C183 stby
C185 stby
C186 0.1 YB
GNDD
IC103 TC74VHC573FTS1 LATCH
R141 47
R142 47
R146 47
R145 47
C178 0.1 YB
C177 stby
L105 QTL1013
V31D
CK289
IC104 TC74VHC573FTS1 LATCH
R143 47
R144 47
R147 47
R148 47
CK290
V31E
L106 QTL1013
IC105 TC7W139FU
R149 47
R150 47
R157 47
C179 stby
C180 0.1 YB
stby
V31H
V3D2
L110 QTL1013
CK287
IC110 CY7C1049D3310VXI 4M 36Pin(8bit×512kW)
IC111 CY7C1019C3312VXC 1M 32Pin(8bit×128kW)
SRAM2
R161 22
R162 0
C190 0.1 YB
C189 stby
C191 stby
C192 0.1 YB
GNDD
stby
IC106 AYW7167-/J (S29AL016D70TFI010) (sub: MBM29LV160TE70PFTN)
FLASH ROM
R152 stby
R151 stby
CK291
L107 QTL1013
V31F
C181 stby
C182 0.1 YB
R163 22
R164 0
IC109 TC7SH32FUS1
R153 47
R154 4.7k
C188 0.1 YB
C187 stby
ROWE
XWR
XRD
MC
GNDD
D1

NOTES

NO INDICATED PARTS IS...

(1005) CCSSCH***50 CCSRYB***K50 CKSSYB103K16 CKSSYB104K10

(1608) CCSRCH471J50 CKSRYB104K16 CKSRYB474K10 CKSRYB105K16

(2125) CKSQYB225K10

CEVW***M**

(1005) RS1/16SS***J

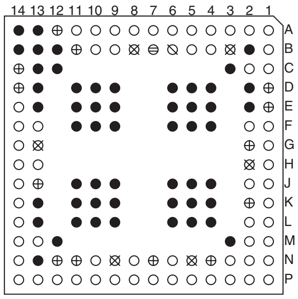
(1608) RS1/16S***J

RAB4CQ***J

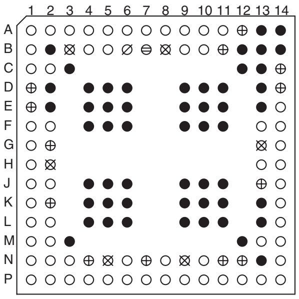
UNLESS OTHERWISE NOTED

G 2/4 DSP ASSY
(VSX-LX50 : AWX8814)
(VSX-91TXH, VSX-9120TXH : AWX8813)

IC101 BOTTOM VIEW

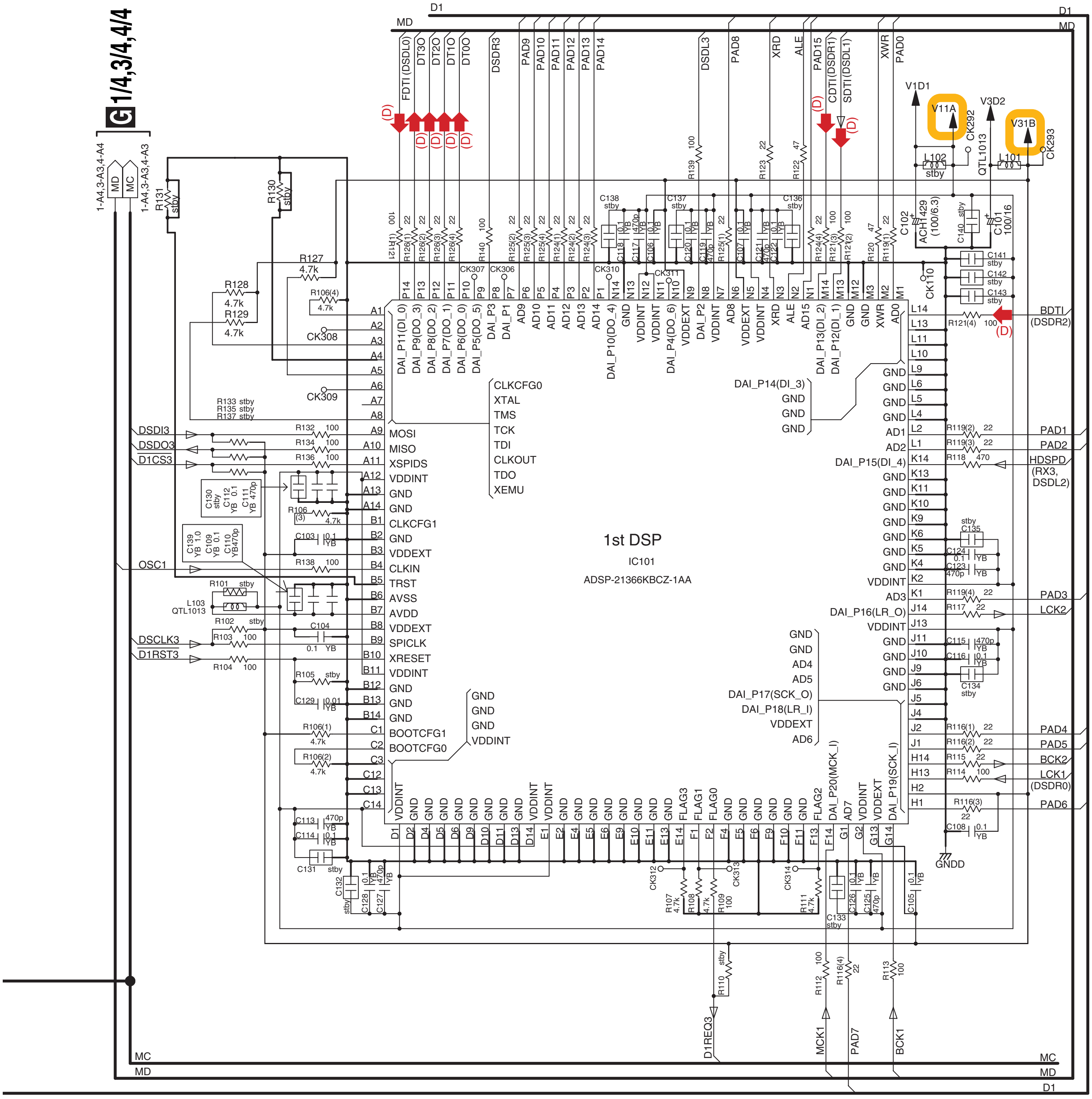

14 13 12 11 10 9 8 7 6 5 4 3 2 1
A
B
C
D
E
F
G
H
J
K
L
M
N
P

IC101 TOP VIEW

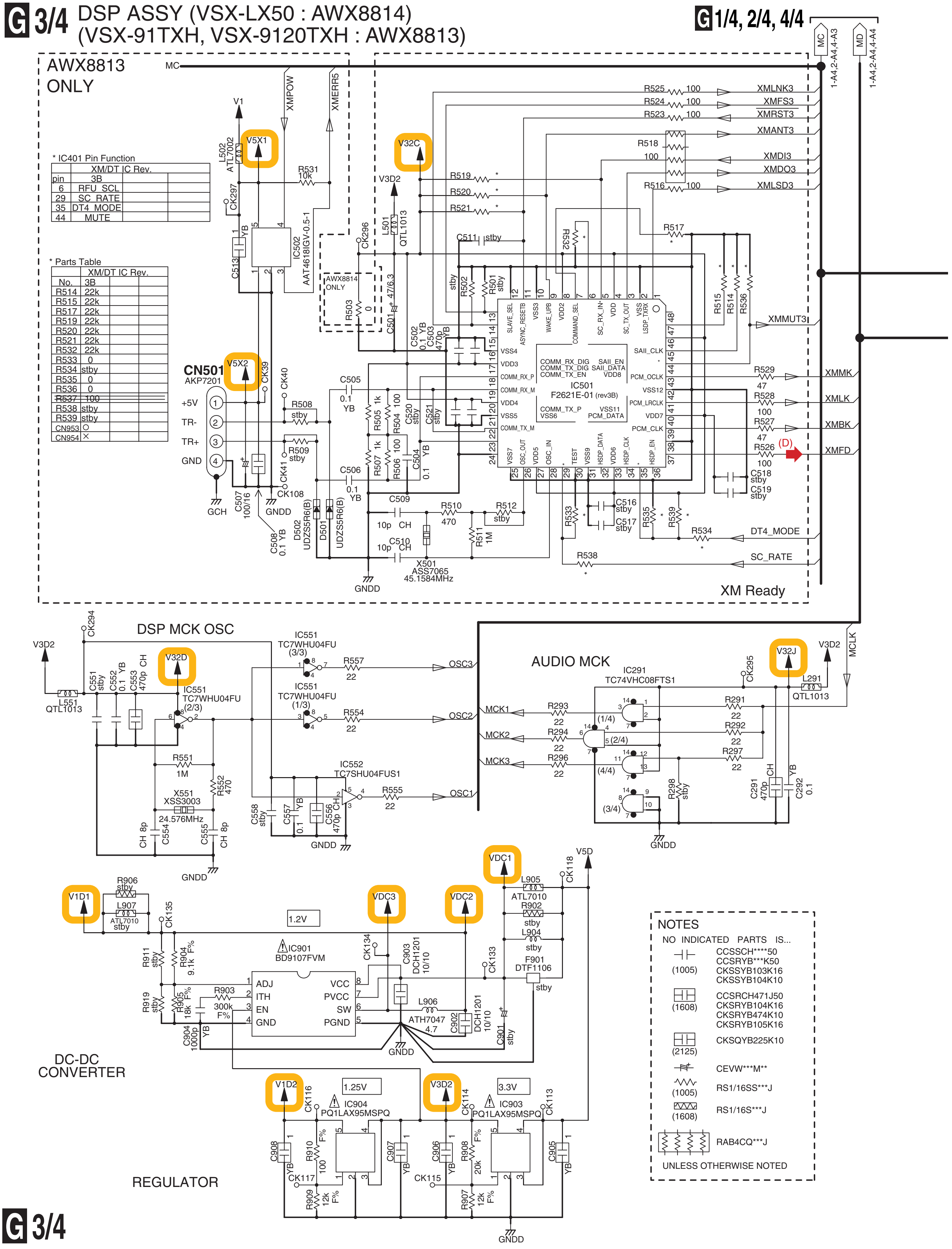

1 2 3 4 5 6 7 8 9 10 11 12 13 14
A
B
C
D
E
F
G
H
J
K
L
M
N
P

- ⊕ VDDINT
- ⊠ VDDEXT
- ● GND
- ⊘ AVSS
- ⊖ AVDD
- ○ I/O SIGNALS

(D) ➡ : Audio Data Route


G 1/4,3/4,4/4
1-A4,3-A4,4-A4
1-A4,3-A4,4-A3
MD
MC
D1
1st DSP
IC101
ADSP-21366KBCZ-1AA
FDTI (DSDL0)
DT3O
DT2O
DT1O
DT0O
DSDR3
PAD9
PAD10
PAD11
PAD12
PAD13
PAD14
DSDL3
PAD8
XRD
ALE
PAD15
CDTI (DSDR1)
SDTI (DSDL1)
XWR
PAD0
V1D1
V3D2
V11A
V31B
CK292
CK293
L102 stby
L101
QTL1013
ACH1429 (100/6.3)
C102
C101 100/16
C140 stby
C141 stby
C142 stby
C143 stby
CK110
BDTI (DSDR2)
R121(4) 100
PAD1
PAD2
HDSPD (RX3, DSDL2)
PAD3
LCK2
PAD4
PAD5
BCK2
LCK1 (DSDR0)
PAD6
GNDD
DSDI3
DSDO3
D1CS3
OSC1
DSCLK3
D1RST3
R127 4.7k
R128 4.7k
R129 4.7k
R130 stby
R131 stby
R106(4) 4.7k
CK308
CK309
R133 stby
R135 stby
R137 stby
R132 100
R134 100
R136 100
R138 100
R101 stby
L103 QTL1013
R102 stby
R103 100
R104 100
R105 stby
C104 0.1 YB
C129 0.01 YB
R106(1) 4.7k
R106(2) 4.7k
R106(3) 4.7k
C103 0.1 YB
C130 stby
C112 YB 0.1
C111 YB 470p
C139 YB 1.0
C109 YB 0.1
C110 YB 470p
C113 470p YB
C114 0.1 YB
C131 stby
C132 stby
C128 0.1 YB
C127 470p YB
R107 4.7k
R108 4.7k
R109 100
R110 stby
R111 4.7k
R112 100
R113 100
R116(4) 22
CK312
CK313
CK314
C133 stby
C126 0.1 YB
C125 470p YB
C105 0.1 YB
D1REQ3
MCK1
PAD7
BCK1
CK305
CK306
CK307
CK310
CK311
C138 stby
C137 stby
C136 stby
R139 100
R123 22
R122 47
R120 47
MOSI
MISO
XSPIDS
VDDINT
GND
CLKCFG1
VDDEXT
CLKIN
TRST
AVSS
AVDD
SPICLK
XRESET
BOOTCFG1
BOOTCFG0
CLKCFG0
XTAL
TMS
TCK
TDI
CLKOUT
TDO
XEMU
DAI_P14(DI_3)
DAI_P15(DI_4)
DAI_P16(LR_O)
DAI_P17(SCK_O)
DAI_P18(LR_I)
DAI_P11(DI_0)
DAI_P9(DO_3)
DAI_P8(DO_2)
DAI_P7(DO_1)
DAI_P6(DO_0)
DAI_P5(DO_5)
DAI_P3
DAI_P1
DAI_P10(DO_4)
DAI_P4(DO_6)
DAI_P2
DAI_P13(DI_2)
DAI_P12(DI_1)
DAI_P20(MCK_I)
DAI_P19(SCK_I)
FLAG0
FLAG1
FLAG2
FLAG3
AD0–AD15
(D)
MC
MD
D1

10.8 DSP ASSY (3/4)


G 3/4
DSP ASSY (VSX-LX50 : AWX8814)
(VSX-91TXH, VSX-9120TXH : AWX8813)
G 1/4, 2/4, 4/4
MC
1-A4,2-A4,4-A3
MD
1-A4,2-A4,4-A4
AWX8813
ONLY
MC
V1
XMPOW
XMERR5
V5X1
L502
ATL7002
R531
10k
CK297
C513
YB
IC502
AAT4618IGV-0.5-1
V32C
V3D2
CK296
L501
QTL1013
AWX8814
ONLY
R503
0
C501 47/6.3
C502 0.1 YB
C503 470p YB
R502
R501 stby
stby
R525 100 XMLNK3
R524 100 XMFS3
R523 100 XMRST3
XMANT3
R518 100
XMDI3
XMDO3
R516 100 XMLSD3
R519 *
R520 *
R521 *
C511 stby
R532
R517
R515
R514
R536
XMMUT3
IC501
F2621E-01 (rev3B)
SLAVE_SEL
ASYNC_RESETB
VSS3
WAKE_UPB
VDD2
COMMAND_SEL
SC_RX_IN
VDD
SC_TX_OUT
VSS LSDP_TXRX
VSS4
VDD3
COMM_RX_P
COMM_RX_M
VDD4
VSS5
COMM_TX_M
COMM_RX_DIG
COMM_TX_DIG
COMM_TX_EN
SAII_EN
SAII_DATA
VDD8
SAII_CLK
PCM_OCLK
VSS12
PCM_LRCLK
VDD7
PCM_CLK
COMM_TX_P
VSS6
VSS11
PCM_DATA
VSS7
OSC_OUT
VDD5
OSC_IN
TEST
VSS9
HSDP_DATA
VDD6
HSDP_CLK
HSDP_EN
R529 47 XMMK
R528 100 XMLK
R527 47 XMBK
R526 100 (D) XMFD
C518 stby
C519 stby
CN501
AKP7201
V5X2
CK39
CK40
+5V
TR-
TR+
GND
GCH
C507 100/16
GNDD
C508 0.1 YB
R508 stby
R509 stby
CK41
CK108
D502 UDZS5R6(B)
D501 UDZS5R6(B)
C505 0.1 YB
C506 0.1 YB
R505 1k
R507 1k
R504 100
R506 100
C520 stby
C521 stby
C504 0.1 YB
C509 10p CH
C510 10p CH
R510 470
R512 stby
R511 1M
X501
ASS7065
45.1584MHz
GNDD
R533
C516 stby
C517 stby
R535
R539
R534
DT4_MODE
R538
SC_RATE
XM Ready
DSP MCK OSC
CK294
V3D2
L551
QTL1013
C551 stby
C552 0.1 YB
C553 470p CH
V32D
IC551
TC7WHU04FU
(2/3)
IC551
TC7WHU04FU
(3/3)
R557 22 OSC3
IC551
TC7WHU04FU
(1/3)
R554 22 OSC2
R551 1M
R552 470
X551
XSS3003
24.576MHz
C554 8p CH
C555 8p CH
GNDD
IC552
TC7SHU04FUS1
R555 22 OSC1
C558 stby
C557 0.1 YB
C556 470p CH
GNDD
AUDIO MCK
IC291
TC74VHC08FTS1
CK295
V32J
V3D2
MCLK
L291
QTL1013
MCK1
MCK2
MCK3
R293 22
R294 22
R296 22
(1/4)
(2/4)
(4/4)
(3/4)
R291 22
R292 22
R297 22
R298 stby
C291 470p CH
C292 0.1 YB
GNDD
VDC1
V5D
CK118
L905
ATL7010
R902 stby
L904 stby
F901
DTF1106
stby
V1D1
R906 stby
L907
ATL7010 stby
CK135
1.2V
VDC3
VDC2
IC901
BD9107FVM
ADJ
ITH
EN
GND
VCC
PVCC
SW
PGND
CK134
C903
DCH1201 10/10
CK133
R911 stby
R904 9.1k F%
R919 stby
R905 18k F%
R903 300k F%
C904 1000p YB
L906
ATH7047 4.7
C902
DCH1201 10/10
C901 stby
GNDD
DC-DC
CONVERTER
V1D2
CK116
1.25V
IC904
PQ1LAX95MSPQ
V3D2
CK114
3.3V
IC903
PQ1LAX95MSPQ
CK113
C908 YB
R910 100 F%
CK117
R909 12k F%
C907 YB
C906 YB
R908 20k F%
CK115
R907 12k F%
C905 YB
REGULATOR
GNDD
G 3/4

* IC401 Pin Function

	XM/DT IC Rev.		
pin	3B		
6	RFU_SCL		
29	SC_RATE		
35	DT4_MODE		
44	MUTE		

* Parts Table

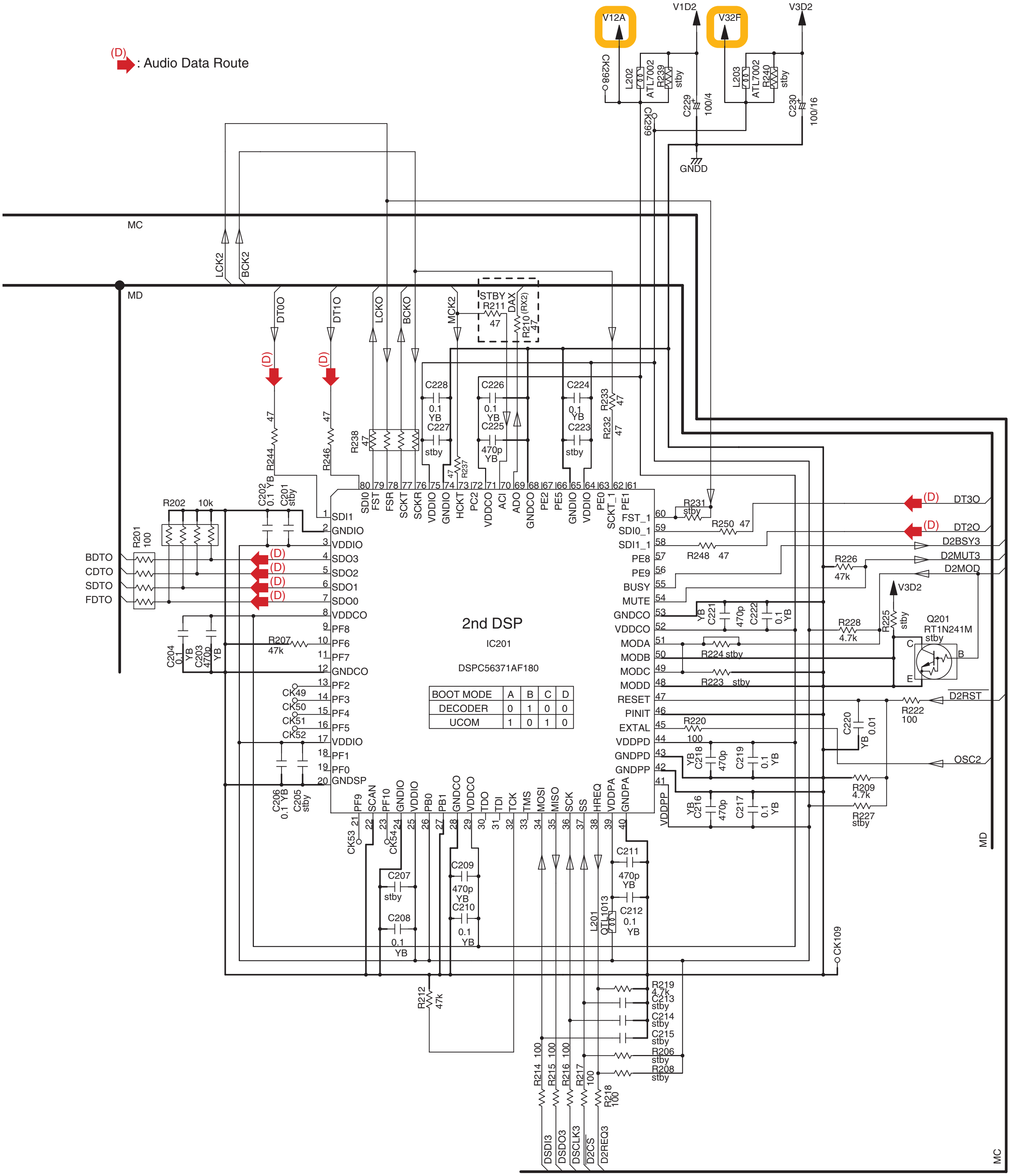
	XM/DT IC Rev.		
No.	3B		
R514	22k		
R515	22k		
R517	22k		
R519	22k		
R520	22k		
R521	22k		
R532	22k		
R533	0		
R534	stby		
R535	0		
R536	0		
~~R537~~	~~100~~		
R538	stby		
R539	stby		
CN953	○		
CN954	×		

NOTES

NO INDICATED PARTS IS...

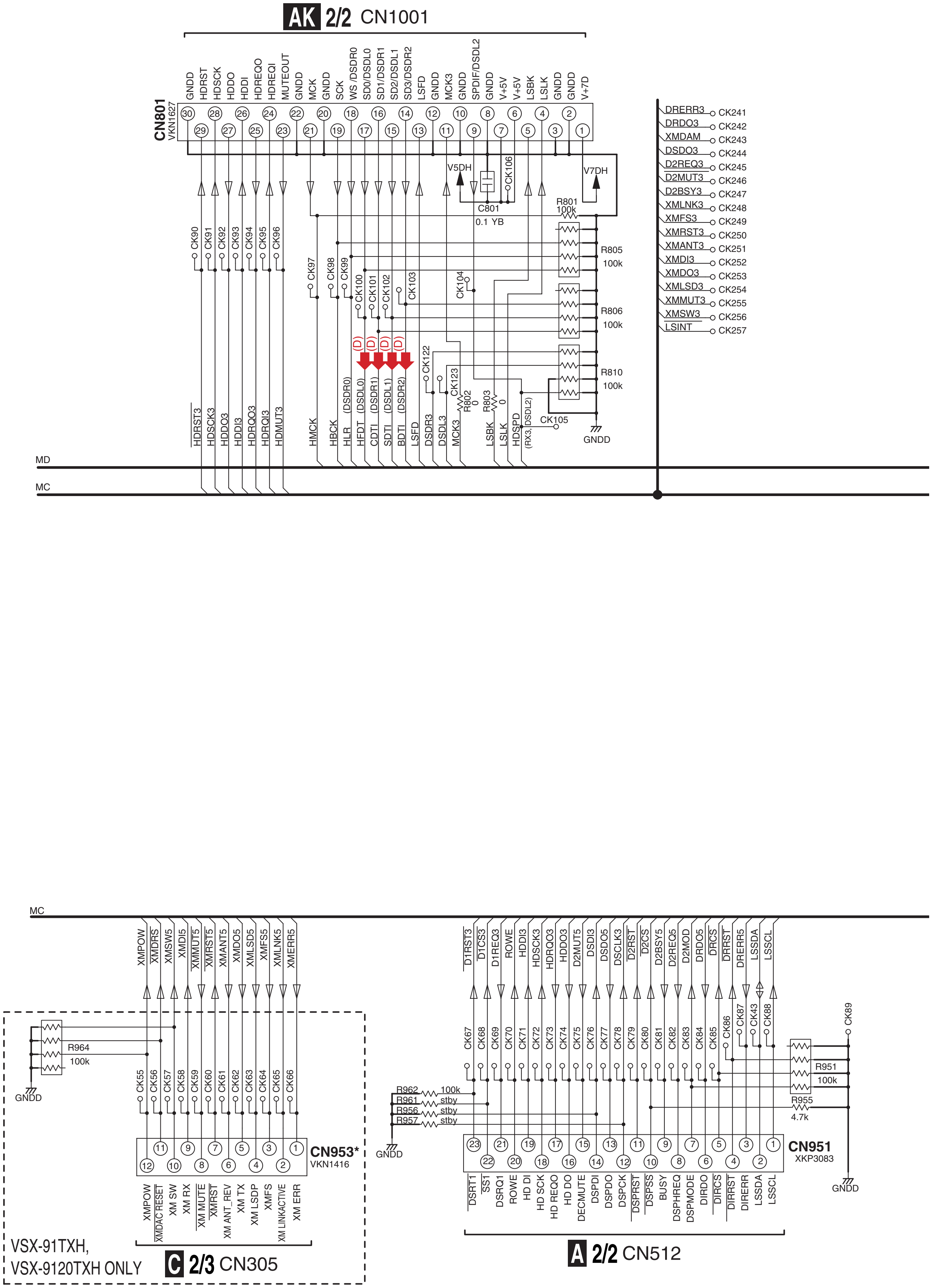
(1005)	CCSSCH****50 CCSRYB***K50 CKSSYB103K16 CKSSYB104K10
(1608)	CCSRCH471J50 CKSRYB104K16 CKSRYB474K10 CKSRYB105K16
(2125)	CKSQYB225K10
	CEVW***M**
(1005)	RS1/16SS***J
(1608)	RS1/16S***J
	RAB4CQ***J

UNLESS OTHERWISE NOTED


(D) : Audio Data Route
V12A
V1D2
V32F
V3D2
CK298
L202
ATL7002
R239
stby
CK299
C229
100/4
L203
ATL7002
R240
stby
C230
100/16
GNDD
MC
MD
LCK2
BCK2
DT0O
DT1O
LCKO
BCKO
MCK2
STBY
R211
47
DAX
(RX2)
R210
47
(D)
R244
47
R246
47
R238
47
C228
0.1
YB
C227
stby
C226
0.1
YB
C225
470p
YB
C224
0.1
YB
C223
stby
R233
47
R232
47
R237
47
C202
0.1 YB
C201
stby
R202
10k
R201
100
BDTO
CDTO
SDTO
FDTO
C204
0.1
C203
470p
YB
R207
47k
CK49
CK50
CK51
CK52
C206
0.1 YB
C205
stby
2nd DSP
IC201
DSPC56371AF180
SDI0
FST
FSR
SCKT
SCKR
VDDIO
GNDIO
HCKT
PC2
VDDCO
ACI
ADO
GNDCO
PE2
PE5
GNDIO
VDDIO
PE0
SCKT_1
PE1
SDI1
GNDIO
VDDIO
SDO3
SDO2
SDO1
SDO0
VDDCO
PF8
PF6
PF7
GNDCO
PF2
PF3
PF4
PF5
VDDIO
PF1
PF0
GNDSP
FST_1
SDI0_1
SDI1_1
PE8
PE9
BUSY
MUTE
GNDCO
VDDCO
MODA
MODB
MODC
MODD
RESET
PINIT
EXTAL
VDDPD
GNDPD
GNDPP
VDDPP
PF9
SCAN
PF10
GNDIO
VDDIO
PB0
PB1
GNDCO
VDDCO
TDO
TDI
TCK
TMS
MOSI
MISO
SCK
SS
HREQ
VDDPA
GNDPA
R231
stby
R250 47
R248 47
DT3O
DT2O
D2BSY3
D2MUT3
D2MOD
R226
47k
V3D2
C221
YB
470p
C222
0.1
YB
R225
stby
Q201
RT1N241M
stby
C
B
E
R228
4.7k
R224 stby
R223 stby
D2RST
R222
100
C220
0.01
YB
R220
100
C218
YB
470p
C219
0.1
YB
OSC2
R209
4.7k
R227
stby
C216
YB
470p
C217
0.1
YB
CK53
CK54
C207
stby
C208
0.1
YB
C209
470p
YB
C210
0.1
YB
C211
470p
YB
C212
0.1
YB
L201
QTL1013
CK109
R212
47k
R219
4.7k
C213
stby
C214
stby
C215
stby
R206
stby
R208
stby
R214 100
R215 100
R216 100
R217 100
R218 100
DSDI3
DSDO3
DSCLK3
D2CS
D2REQ3
MD
MC

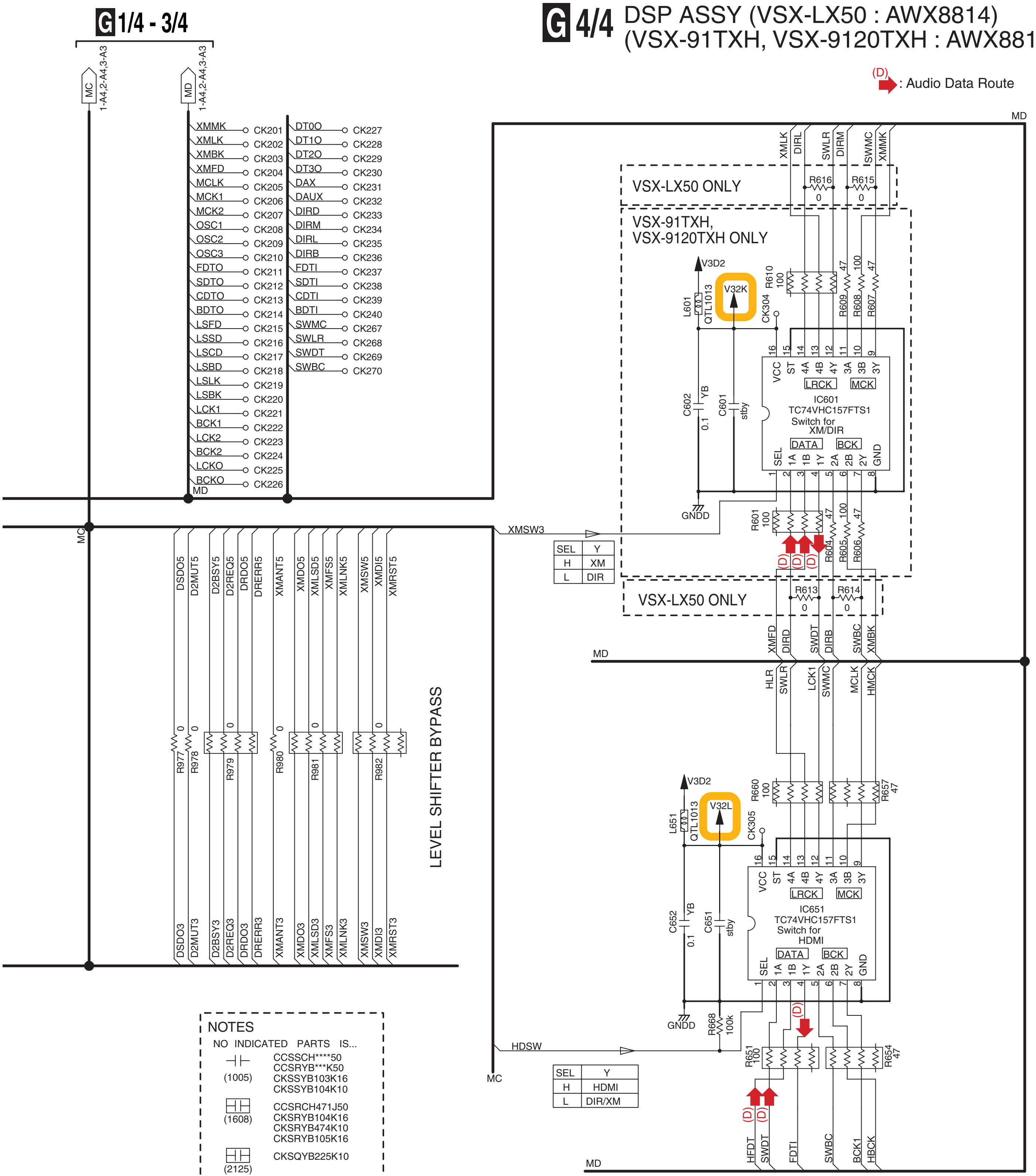
BOOT MODE	A	B	C	D
DECODER	0	1	0	0
UCOM	1	0	1	0

10.9 DSP ASSY (4/4)


AK 2/2 CN1001
CN801
VKN1627
GNDD
HDRST
HDSCK
HDDO
HDDI
HDREQO
HDREQI
MUTEOUT
GNDD
MCK
GNDD
SCK
WS /DSDR0
SD0/DSDL0
SD1/DSDR1
SD2/DSDL1
SD3/DSDR2
LSFD
GNDD
MCK3
GNDD
SPDIF/DSDL2
GNDD
V+5V
V+5V
LSBK
LSLK
GNDD
GNDD
V+7D
V5DH
V7DH
C801
0.1 YB
CK106
R801
100k
R805
100k
R806
100k
R810
100k
R802
0
R803
0
CK90
CK91
CK92
CK93
CK94
CK95
CK96
CK97
CK98
CK99
CK100
CK101
CK102
CK103
CK104
CK122
CK123
CK105
(D)
(D)
(D)
(D)
HDRST3
HDSCK3
HDDO3
HDDI3
HDRQO3
HDRQI3
HDMUT3
HMCK
HBCK
HLR (DSDR0)
HFDT (DSDL0)
CDTI (DSDR1)
SDTI (DSDL1)
BDTI (DSDR2)
LSFD
DSDR3
DSDL3
MCK3
LSBK
LSLK
HDSPD
(RX3, DSDL2)
GNDD
DRERR3 CK241
DRDO3 CK242
XMDAM CK243
DSDO3 CK244
D2REQ3 CK245
D2MUT3 CK246
D2BSY3 CK247
XMLNK3 CK248
XMFS3 CK249
XMRST3 CK250
XMANT3 CK251
XMDI3 CK252
XMDO3 CK253
XMLSD3 CK254
XMMUT3 CK255
XMSW3 CK256
LSINT CK257
MD
MC
MC
XMPOW
XMDRS
XMSW5
XMDI5
XMMUT5
XMRST5
XMANT5
XMDO5
XMLSD5
XMFS5
XMLNK5
XMERR5
R964
100k
GNDD
CK55
CK56
CK57
CK58
CK59
CK60
CK61
CK62
CK63
CK64
CK65
CK66
CN953*
VKN1416
XMPOW
XMDAC RESET
XM SW
XM RX
XM MUTE
XMRST
XM ANT_REV
XM TX
XM LSDP
XMFS
XM LINKACTIVE
XM ERR
VSX-91TXH,
VSX-9120TXH ONLY
C 2/3 CN305
D1RST3
D1CS3
D1REQ3
ROWE
HDDI3
HDSCK3
HDRQO3
HDDO3
D2MUT5
DSDI3
DSDO5
DSCLK3
D2RST
D2CS
D2BSY5
D2REQ5
D2MOD
DRDO5
DRCS
DRRST
DRERR5
LSSDA
LSSCL
CK67
CK68
CK69
CK70
CK71
CK72
CK73
CK74
CK75
CK76
CK77
CK78
CK79
CK80
CK81
CK82
CK83
CK84
CK85
CK86
CK87
CK43
CK88
CK89
R962 100k
R961 stby
R956 stby
R957 stby
GNDD
R951
100k
R955
4.7k
GNDD
CN951
XKP3083
DSRT1
SST
DSRQ1
ROWE
HD DI
HD SCK
HD REQO
HD DO
DECMUTE
DSPDI
DSPDO
DSPCK
DSPRST
DSPSS
BUSY
DSPHREQ
DSPMODE
DIRDO
DIRCS
DIRRST
DIRERR
LSSDA
LSSCL
A 2/2 CN512

G 4/4 DSP ASSY (VSX-LX50 : AWX8814) (VSX-91TXH, VSX-9120TXH : AWX8813)

(D) : Audio Data Route


G 1/4 - 3/4
MC 1-A4,2-A4,3-A3
MD 1-A4,2-A4,3-A3
XMMK CK201
XMLK CK202
XMBK CK203
XMFD CK204
MCLK CK205
MCK1 CK206
MCK2 CK207
OSC1 CK208
OSC2 CK209
OSC3 CK210
FDTO CK211
SDTO CK212
CDTO CK213
BDTO CK214
LSFD CK215
LSSD CK216
LSCD CK217
LSBD CK218
LSLK CK219
LSBK CK220
LCK1 CK221
BCK1 CK222
LCK2 CK223
BCK2 CK224
LCKO CK225
BCKO CK226
DT0O CK227
DT1O CK228
DT2O CK229
DT3O CK230
DAX CK231
DAUX CK232
DIRD CK233
DIRM CK234
DIRL CK235
DIRB CK236
FDTI CK237
SDTI CK238
CDTI CK239
BDTI CK240
SWMC CK267
SWLR CK268
SWDT CK269
SWBC CK270
MD
MC
DSDO5 D2MUT5 D2BSY5 D2REQ5 DRDO5 DRERR5 XMANT5 XMDO5 XMLSD5 XMFS5 XMLNK5 XMSW5 XMDI5 XMRST5
R977 0 R978 0 R979 0 R980 0 R981 0 R982 0
LEVEL SHIFTER BYPASS
DSDO3 D2MUT3 D2BSY3 D2REQ3 DRDO3 DRERR3 XMANT3 XMDO3 XMLSD3 XMFS3 XMLNK3 XMSW3 XMDI3 XMRST3
XMSW3
SEL Y
H XM
L DIR
VSX-LX50 ONLY
XMLK DIRL SWLR DIRM SWMC XMMK
R616 0 R615 0
VSX-91TXH, VSX-9120TXH ONLY
V3D2
L601 QTL1013
V32K
CK304
R610 100 R609 47 R608 100 R607 47
C602 0.1 YB
C601 stby
16 VCC 15 ST 14 4A 13 4B 12 4Y 11 3A 10 3B 9 3Y
LRCK MCK
IC601 TC74VHC157FTS1 Switch for XM/DIR
DATA BCK
1 SEL 2 1A 3 1B 4 1Y 5 2A 6 2B 7 2Y 8 GND
GNDD
R601 100 R604 47 R605 100 R606 47
(D) (D) (D)
VSX-LX50 ONLY
R613 0 R614 0
XMFD DIRD SWDT DIRB SWBC XMBK
MD
HLR SWLR LCK1 SWMC MCLK HMCK
V3D2
L651 QTL1013
V32L
CK305
R660 100 R657 47
C652 0.1 YB
C651 stby
16 VCC 15 ST 14 4A 13 4B 12 4Y 11 3A 10 3B 9 3Y
LRCK MCK
IC651 TC74VHC157FTS1 Switch for HDMI
DATA BCK
1 SEL 2 1A 3 1B 4 1Y 5 2A 6 2B 7 2Y 8 GND
GNDD
R668 100k
(D)
R651 100 R654 47
HDSW
SEL Y
H HDMI
L DIR/XM
MC
(D) (D)
HFDT SWDT FDTI SWBC BCK1 HBCK
MD

NOTES

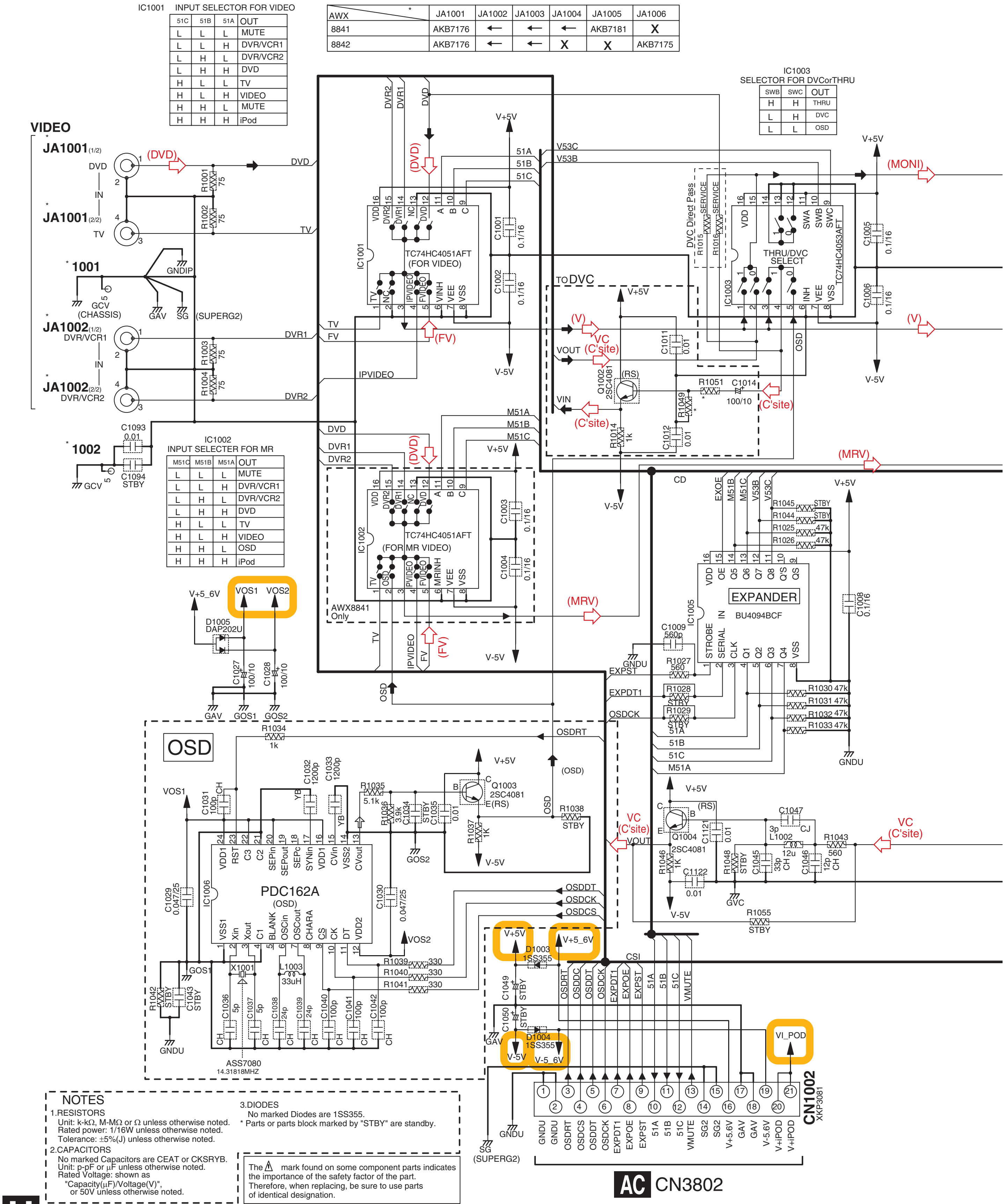
NO INDICATED PARTS IS...

⊣⊢ (1005)	CCSSCH****50 CCSRYB***K50 CKSSYB103K16 CKSSYB104K10
(1608)	CCSRCH471J50 CKSRYB104K16 CKSRYB474K10 CKSRYB105K16
(2125)	CKSQYB225K10
	CEVW***M**
(1005)	RS1/16SS***J
(1608)	RS1/16S***J
	RAB4CQ***J

UNLESS OTHERWISE NOTED

10.10 COMPOSITE ASSY

H COMPOSITE ASSY
(VSX-LX50 : AWX8842)
(VSX-91TXH, VSX-9120TXH : AWX8841)


VIDEO
JA1001 (1/2) DVD
JA1001 (2/2) TV
IN
1001 GNDIP GCV (CHASSIS) GAV SG (SUPERG2)
JA1002 (1/2) DVR/VCR1
JA1002 (2/2) DVR/VCR2
1002 GCV C1093 0.01 C1094 STBY
R1001 75
R1002 75
R1003 75
R1004 75
(DVD)
IC1001 TC74HC4051AFT (FOR VIDEO)
IC1002 TC74HC4051AFT (FOR MR VIDEO)
AWX8841 Only
C1001 0.1/16
C1002 0.1/16
C1003 0.1/16
C1004 0.1/16
V+5V
V-5V
(FV)
IPVIDEO
TO DVC
(V)
VC (C'site)
VOUT
VIN
Q1002 2SC4081 (RS)
R1051
C1014 100/10
R1049
R1014 1k
C1011 0.01
C1012 0.01
IC1003 SELECTOR FOR DVCorTHRU
THRU/DVC SELECT
TC74HC4053AFT
DVC Direct Pass R1015 SERVICE R1016 SERVICE
C1005 0.1/16
C1006 0.1/16
(MONI)
(MRV)
IC1005 EXPANDER BU4094BCF
R1045 STBY
R1044 STBY
R1025 47k
R1026 47k
R1027 560
R1028 STBY
R1029 STBY
R1030 47k
R1031 47k
R1032 47k
R1033 47k
C1008 0.1/16
C1009 560p
EXPST EXPDT1 OSDCK OSDRT
51A 51B 51C M51A M51B M51C V53B V53C EXOE
GNDU
V+5_6V VOS1 VOS2
D1005 DAP202U
C1027 100/10
C1028 100/10
GAV GOS1 GOS2
OSD
R1034 1k
IC1006 PDC162A (OSD)
C1031 100p CH
C1032 1200p
C1033 1200p
R1035 5.1k
R1036 3.9k
C1034 STBY
C1035 0.01
Q1003 2SC4081 (RS)
R1037 1K
R1038 STBY
C1029 0.047/25
C1030 0.047/25
X1001 ASS7080 14.31818MHZ
L1003 33uH
C1036 5p
C1037 5p
C1038 24p
C1039 24p
C1040 100p
C1041 100p
C1042 100p
R1042 STBY
C1043 STBY
R1039 330
R1040 330
R1041 330
OSDDT OSDCK OSDCS
Q1004 2SC4081 (RS)
R1046 1K
C1121 0.01
C1122 0.01
R1048 STBY
C1045 33p CH
L1002 12u
C1047 3p CJ
C1046 12p CH
R1043 560
R1055 STBY
GVC
D1003 1SS355
D1004 1SS355
C1049 STBY
C1050 STBY
V+5V V-5V V+5_6V V-5_6V
VI_POD
CSI
CN1002 XKP3081
GNDU GNDU OSDRT OSDCS OSDDT OSDCK EXPDT1 EXPOE EXPST 51A 51B 51C VMUTE SG2 SG2 V+5.6V GAV GAV V-5.6V V+iPOD V+iPOD
SG (SUPERG2)
AC CN3802

IC1001 INPUT SELECTOR FOR VIDEO

51C	51B	51A	OUT
L	L	L	MUTE
L	L	H	DVR/VCR1
L	H	L	DVR/VCR2
L	H	H	DVD
H	L	L	TV
H	L	H	VIDEO
H	H	L	MUTE
H	H	H	iPod

AWX *	JA1001	JA1002	JA1003	JA1004	JA1005	JA1006
8841	AKB7176	←	←	←	AKB7181	X
8842	AKB7176	←	←	X	X	AKB7175

IC1003 SELECTOR FOR DVCorTHRU

SWB	SWC	OUT
H	H	THRU
L	H	DVC
L	L	OSD

IC1002 INPUT SELECTER FOR MR

M51C	M51B	M51A	OUT
L	L	L	MUTE
L	L	H	DVR/VCR1
L	H	L	DVR/VCR2
L	H	H	DVD
H	L	L	TV
H	L	H	VIDEO
H	H	L	OSD
H	H	H	iPod

NOTES

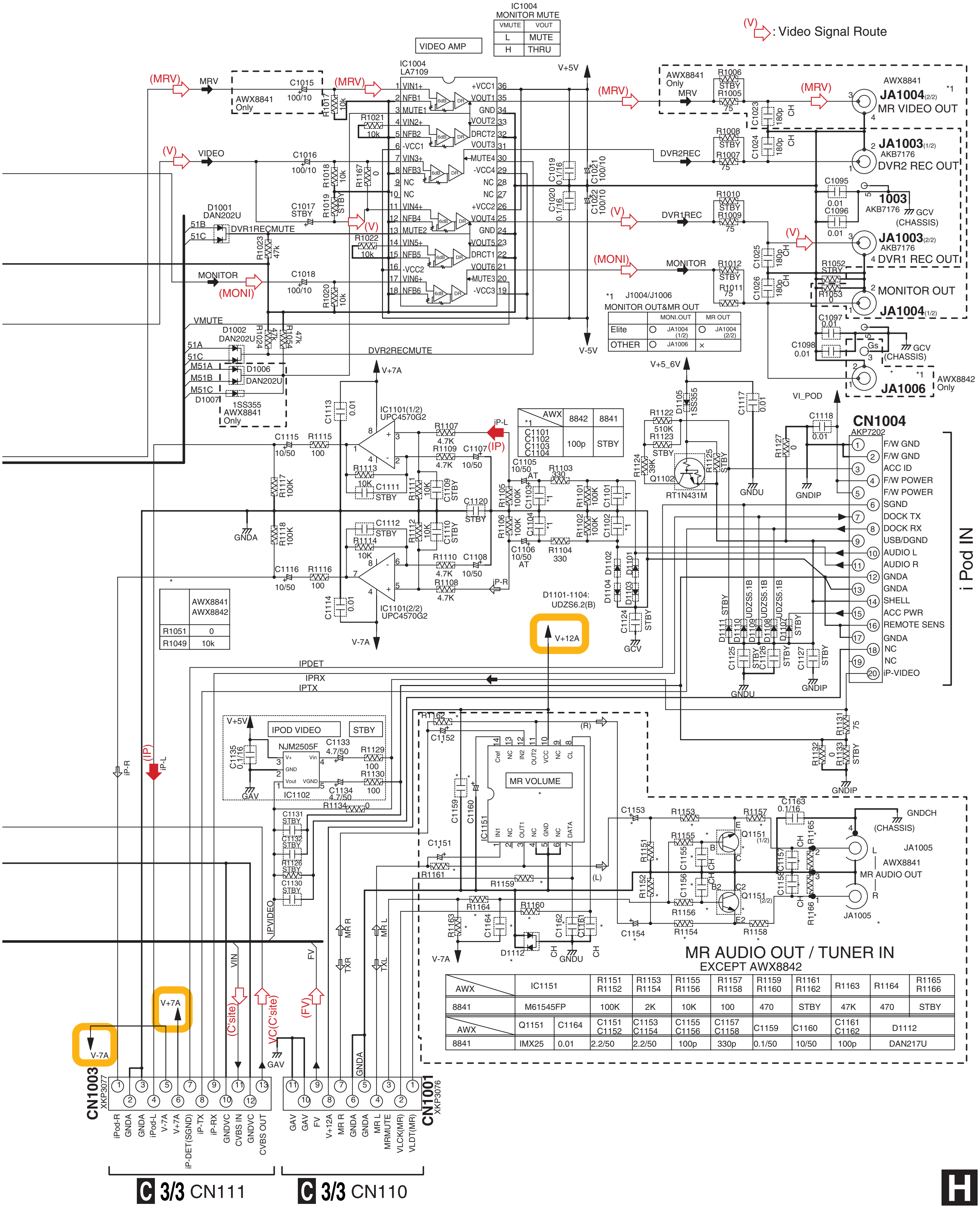
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS355.

* Parts or parts block marked by "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.


(V) : Video Signal Route
VIDEO AMP
IC1004
LA7109
IC1004 MONITOR MUTE
(MRV)
MRV
AWX8841 Only
VIDEO
MONITOR
(MONI)
VMUTE
D1001 DAN202U
DVR1RECMUTE
DVR2RECMUTE
D1002 DAN202U
D1006 DAN202U
D1007 1SS355 AWX8841 Only
DVR2REC
DVR1REC
JA1004 MR VIDEO OUT
JA1003 AKB7176 DVR2 REC OUT
JA1003 AKB7176 DVR1 REC OUT
MONITOR OUT
JA1004
JA1006
AWX8842 Only
GCV (CHASSIS)
V+5V
V-5V
V+5_6V
V+7A
V-7A
V+12A
IC1101(1/2) UPC4570G2
IC1101(2/2) UPC4570G2
iP-L
iP-R
(IP)
D1101-1104: UDZS6.2(B)
Q1102 RT1N431M
VI_POD
CN1004 AKP7202
F/W GND
F/W GND
ACC ID
F/W POWER
F/W POWER
SGND
DOCK TX
DOCK RX
USB/DGND
AUDIO L
AUDIO R
GNDA
GNDA
SHELL
ACC PWR
REMOTE SENS
GNDA
NC
NC
iP-VIDEO
i Pod IN
IPDET
IPRX
IPTX
IPOD VIDEO
STBY
NJM2505F
IC1102
MR VOLUME
IC1151
Q1151
JA1005 AWX8841 MR AUDIO OUT
GNDCH (CHASSIS)
GNDU
GNDIP
GAV
IPVIDEO
VIN
FV
MR R
MR L
TXR
TXL
(C'site)
VC(C'site)
(FV)
CN1003 XKP3077
iPod-R
GNDA
GNDA
iPod-L
V-7A
V+7A
iP-DET(SGND)
iP-TX
iP-RX
GNDVC
CVBS IN
GNDVC
CVBS OUT
CN1001 XKP3076
GAV
GAV
FV
V+12A
MR R
GNDA
GNDA
MR L
MRMUTE
VLCK(MR)
VLDT(MR)
C 3/3 CN111
C 3/3 CN110

IC1004 MONITOR MUTE

VMUTE	VOUT
L	MUTE
H	THRU

*1 J1004/J1006
MONITOR OUT&MR OUT

	MONI.OUT	MR OUT
Elite	○ JA1004 (1/2)	○ JA1004 (2/2)
OTHER	○ JA1006	×

AWX *1	8842	8841
C1101 C1102 C1103 C1104	100p	STBY

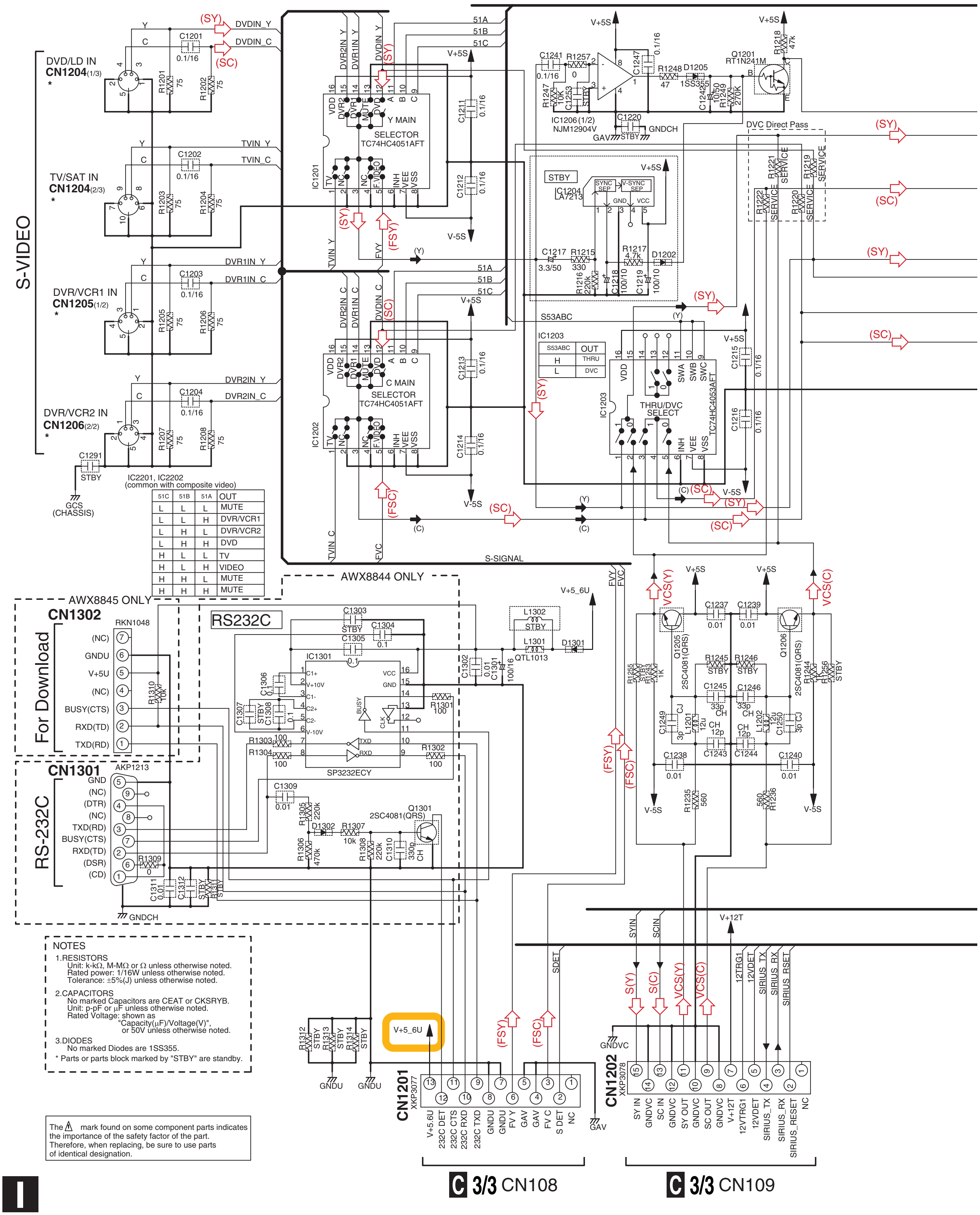
	AWX8841 AWX8842
R1051	0
R1049	10k

MR AUDIO OUT / TUNER IN
EXCEPT AWX8842

AWX	IC1151		R1151 R1152	R1153 R1154	R1155 R1156	R1157 R1158	R1159 R1160	R1161 R1162	R1163	R1164	R1165 R1166
8841	M61545FP		100K	2K	10K	100	470	STBY	47K	470	STBY
AWX	Q1151	C1164	C1151 C1152	C1153 C1154	C1155 C1156	C1157 C1158	C1159	C1160	C1161 C1162	D1112	
8841	IMX25	0.01	2.2/50	2.2/50	100p	330p	0.1/50	10/50	100p	DAN217U	

10.11 S-VIDEO and BRIDGE 2 ASSYS

I S-VIDEO ASSY (VSX-LX50 : AWX8845)
(VSX-91TXH, VSX-9120TXH : AWX8844)



S-VIDEO
DVD/LD IN CN1204(1/3)
TV/SAT IN CN1204(2/3)
DVR/VCR1 IN CN1205(1/2)
DVR/VCR2 IN CN1206(2/2)
DVDIN_Y
DVDIN_C
TVIN_Y
TVIN_C
DVR1IN_Y
DVR1IN_C
DVR2IN_Y
DVR2IN_C
(SY)
(SC)
(FSY)
(FSC)
VCS(Y)
VCS(C)
IC1201 Y MAIN SELECTOR TC74HC4051AFT
IC1202 C MAIN SELECTOR TC74HC4051AFT
IC1203 THRU/DVC SELECT TC74HC4053AFT
IC1204 LA7213
IC1206(1/2) NJM12904V
Q1201 RT1N241M
Q1205 2SC4081(QRS)
Q1206 2SC4081(QRS)
Q1301 2SC4081(QRS)
IC1301 SP3232ECY
S53ABC
DVC Direct Pass
S-SIGNAL
AWX8844 ONLY
AWX8845 ONLY
For Download
CN1302 RKN1048
(NC)
GNDU
V+5U
BUSY(CTS)
RXD(TD)
TXD(RD)
RS232C
RS-232C
CN1301 AKP1213
GND
(DTR)
TXD(RD)
BUSY(CTS)
RXD(TD)
(DSR)
(CD)
GCS (CHASSIS)
GNDCH
V+5S
V-5S
V+5_6U
V+12T
CN1201 XKP3077
V+5.6U
232C DET
232C CTS
232C RXD
232C TXD
GNDU
FV Y
GAV
FV C
S DET
NC
CN1202 XKP3078
SY IN
GNDVC
SC IN
SY OUT
SC OUT
V+12T
12VTRG1
12VDET
SIRIUS_TX
SIRIUS_RX
SIRIUS_RESET
C 3/3 CN108
C 3/3 CN109

IC2201, IC2202
(common with composite video)

51C	51B	51A	OUT
L	L	L	MUTE
L	L	H	DVR/VCR1
L	H	L	DVR/VCR2
L	H	H	DVD
H	L	L	TV
H	L	H	VIDEO
H	H	L	MUTE
H	H	H	MUTE

IC1203

S53ABC	OUT
H	THRU
L	DVC

NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS355.
* Parts or parts block marked by "STBY" are standby.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

(FL) : Audio Signal Route (Front L ch)

(SL) : Audio Signal Route (Surround L ch)

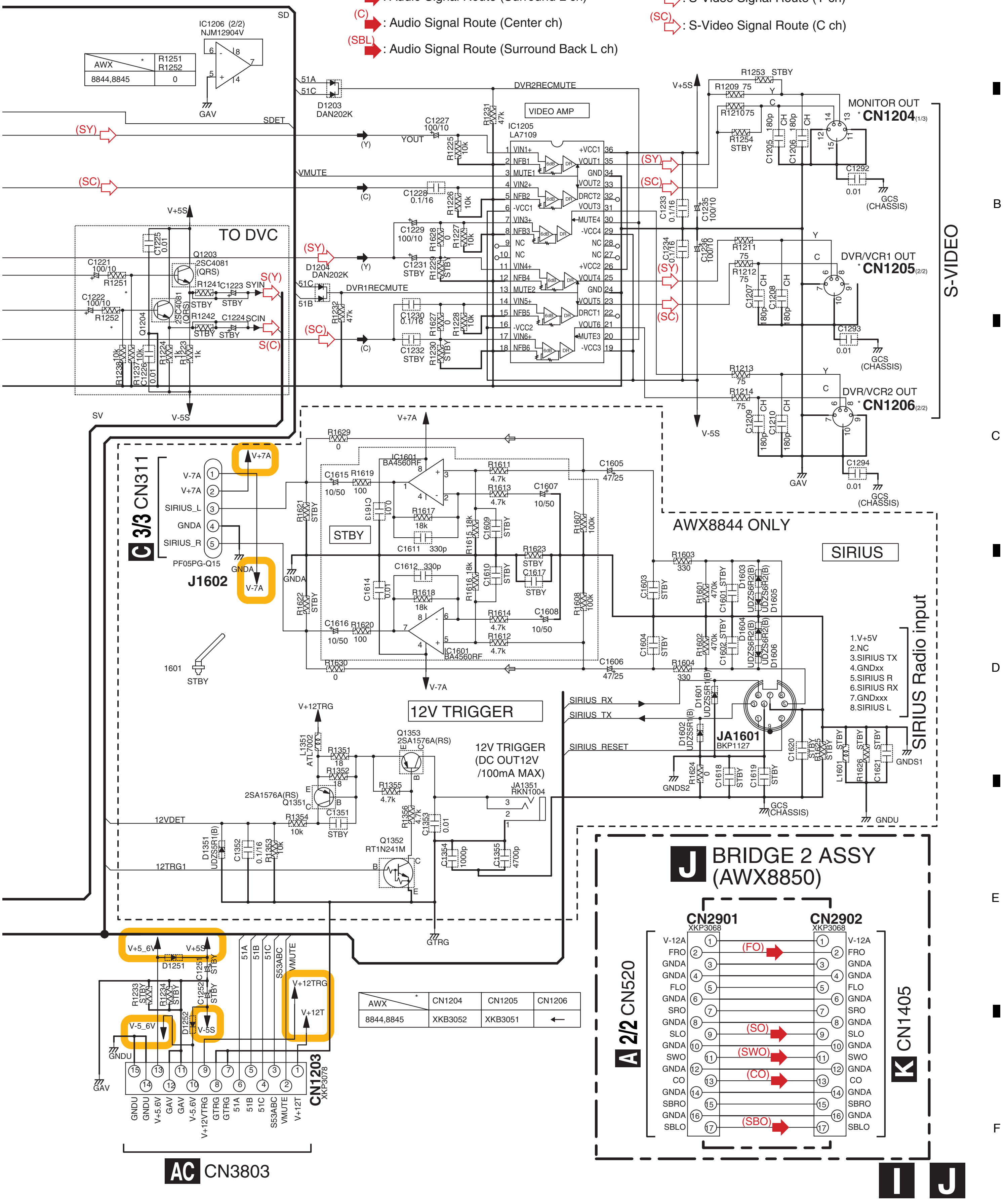
(C) : Audio Signal Route (Center ch)

(SBL) : Audio Signal Route (Surround Back L ch)

(SW) : Audio Signal Route (SubWoofer ch)

(SY) : S-Video Signal Route (Y ch)

(SC) : S-Video Signal Route (C ch)


TO DVC
IC1206 (2/2) NJM12904V
IC1205 LA7109
VIDEO AMP
DVR2RECMUTE
DVR1RECMUTE
MONITOR OUT CN1204 (1/3)
DVR/VCR1 OUT CN1205 (2/2)
DVR/VCR2 OUT CN1206 (2/2)
S-VIDEO
GCS (CHASSIS)
C 3/3 CN311
J1602
V-7A
V+7A
SIRIUS_L
GNDA
SIRIUS_R
PF05PG-Q15
IC1601 BA4560RF
STBY
AWX8844 ONLY
SIRIUS
JA1601 BKP1127
1.V+5V
2.NC
3.SIRIUS TX
4.GNDxx
5.SIRIUS R
6.SIRIUS RX
7.GNDxxx
8.SIRIUS L
SIRIUS Radio input
SIRIUS_RX
SIRIUS_TX
SIRIUS_RESET
12V TRIGGER
12V TRIGGER (DC OUT12V /100mA MAX)
JA1351 RKN1004
Q1353 2SA1576A(RS)
Q1351 2SA1576A(RS)
Q1352 RT1N241M
12VDET
12TRG1
GTRG
J BRIDGE 2 ASSY (AWX8850)
CN2901 XKP3068
CN2902 XKP3068
A 2/2 CN520
K CN1405
V-12A
FRO
GNDA
FLO
SRO
SLO
SWO
CO
SBRO
SBLO
(FO)
(SO)
(SWO)
(CO)
(SBO)
CN1203 XKP3078
AC CN3803
GNDU
V+5.6V
GAV
V-5.6V
V+12VTRG
GTRG
51A
51B
51C
S53ABC
VMUTE
V+12T
V+5_6V
V+5S
V-5_6V
V-5S
V+12TRG

AWX *	R1251 R1252
8844,8845	0

AWX *	CN1204	CN1205	CN1206
8844,8845	XKB3052	XKB3051	←

10.12 COMPONENT ASSY

NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.DIODES
No marked Diodes are 1SS355.
* Parts or parts block marked by "STBY" are standby.

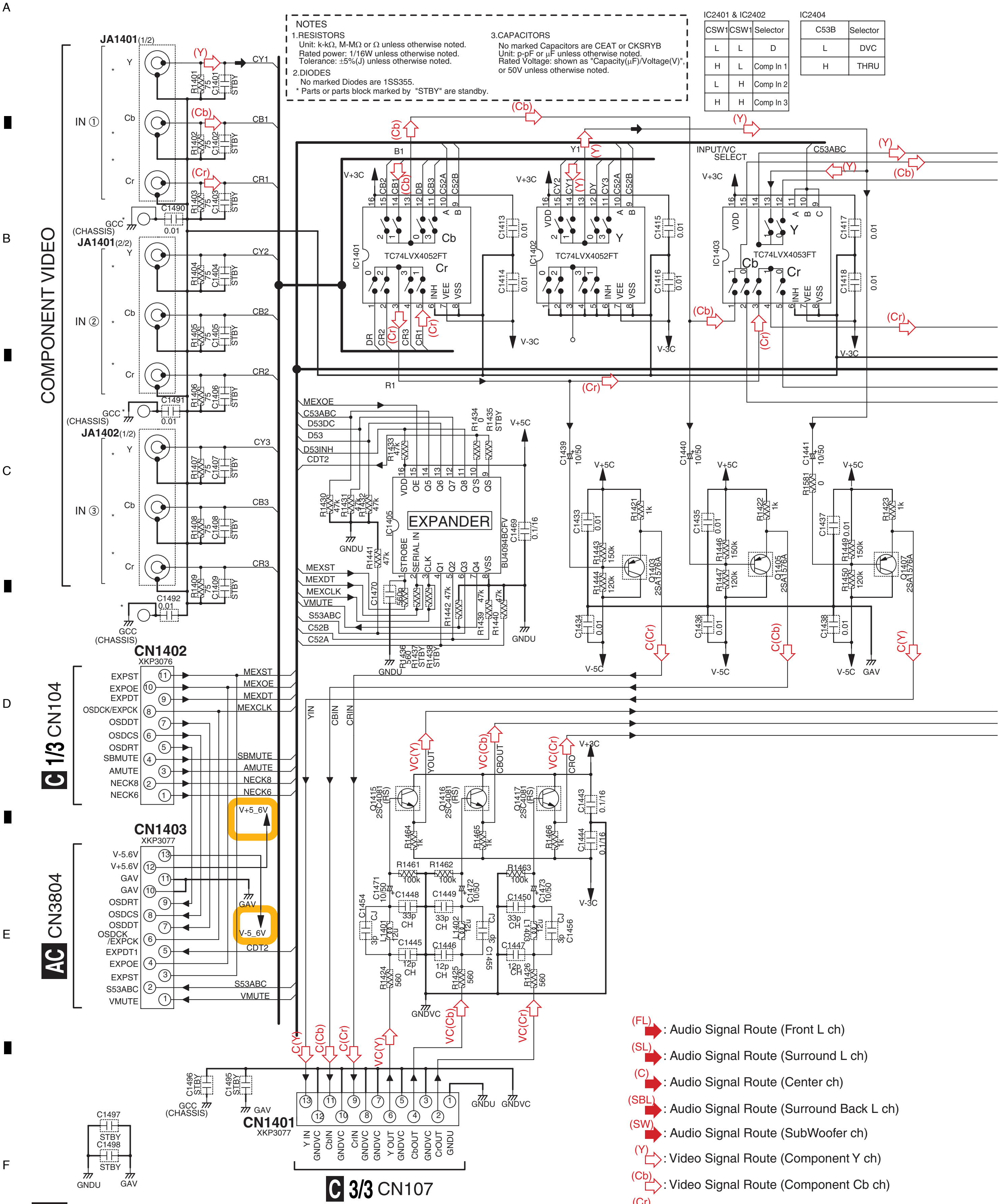
3.CAPACITORS
No marked Capacitors are CEAT or CKSRYB
Unit: p-pF or µF unless otherwise noted.
Rated Voltage: shown as "Capacity(µF)/Voltage(V)".
or 50V unless otherwise noted.

IC2401 & IC2402

CSW1	CSW1	Selector
L	L	D
H	L	Comp In 1
L	H	Comp In 2
H	H	Comp In 3

IC2404

C53B	Selector
L	DVC
H	THRU


A
B
C
D
E
F
COMPONENT VIDEO
JA1401(1/2)
JA1401(2/2)
JA1402(1/2)
IN ①
IN ②
IN ③
Y
Cb
Cr
(Y)
(Cb)
(Cr)
CY1
CB1
CR1
CY2
CB2
CR2
CY3
CB3
CR3
R1401
R1402
R1403
R1404
R1405
R1406
R1407
R1408
R1409
75
C1401
C1402
C1403
C1404
C1405
C1406
C1407
C1408
C1409
STBY
GCC
(CHASSIS)
C1490
C1491
C1492
0.01
IC1401
IC1402
IC1403
TC74LVX4052FT
TC74LVX4053FT
V+3C
V-3C
VDD
INH
VEE
VSS
B1
Y1
R1
DR
CR2
CR3
CR1
DB
DY
CB2
CB1
CB3
C52A
C52B
CY2
CY1
CY3
C1413
C1414
C1415
C1416
C1417
C1418
INPUT/VC SELECT
C53ABC
MEXOE
D53DC
D53
D53INH
CDT2
MEXST
MEXDT
MEXCLK
VMUTE
S53ABC
IC1405
EXPANDER
BU4094BCFV
STROBE
SERIAL IN
CLK
OE
Q5
Q6
Q7
Q8
Q'S
QS
Q1
Q2
Q3
Q4
R1430
R1431
R1432
R1433
R1434
R1435
R1436
R1437
R1438
R1439
R1440
R1441
R1442
47k
C1469
0.1/16
C1470
560p
GNDU
V+5C
V-5C
C1439
C1440
C1441
10/50
R1581
C1433
C1434
C1435
C1436
C1437
C1438
R1421
R1422
R1423
1k
R1443
R1444
R1446
R1447
R1449
R1450
150k
120k
Q1403
Q1405
Q1407
2SA1576A
C(Cr)
C(Cb)
C(Y)
GAV
CN1402
XKP3076
C 1/3 CN1104
EXPST
EXPOE
EXPDT
OSDCK/EXPCK
OSDDT
OSDCS
OSDRT
SBMUTE
AMUTE
NECK8
NECK6
MEXCLK
V+5_6V
V-5_6V
CN1403
XKP3077
AC CN3804
V-5.6V
V+5.6V
OSDCK/EXPCK
EXPDT1
YIN
CBIN
CRIN
VC(Y)
VC(Cb)
VC(Cr)
YOUT
CBOUT
CRO
Q1415
Q1416
Q1417
2SC4081 (RS)
R1464
R1465
R1466
R1461
R1462
R1463
100k
C1443
C1444
0.1/16
C1471
C1472
C1473
C1448
C1449
C1450
33p
CH
C1454
C1455
C1456
CJ
3p
L1401
L1402
L1403
12µ
C1445
C1446
C1447
12p
R1424
R1425
R1426
560
GNDVC
C1495
C1496
C1497
C1498
CN1401
XKP3077
Y IN
GNDVC
CbIN
CrIN
Y OUT
CbOUT
CrOUT
GNDU
C 3/3 CN107

(FL) ➡: Audio Signal Route (Front L ch)

(SL) ➡: Audio Signal Route (Surround L ch)

(C) ➡: Audio Signal Route (Center ch)

(SBL) ➡: Audio Signal Route (Surround Back L ch)

(SW) ➡: Audio Signal Route (SubWoofer ch)

(Y) ⇨: Video Signal Route (Component Y ch)

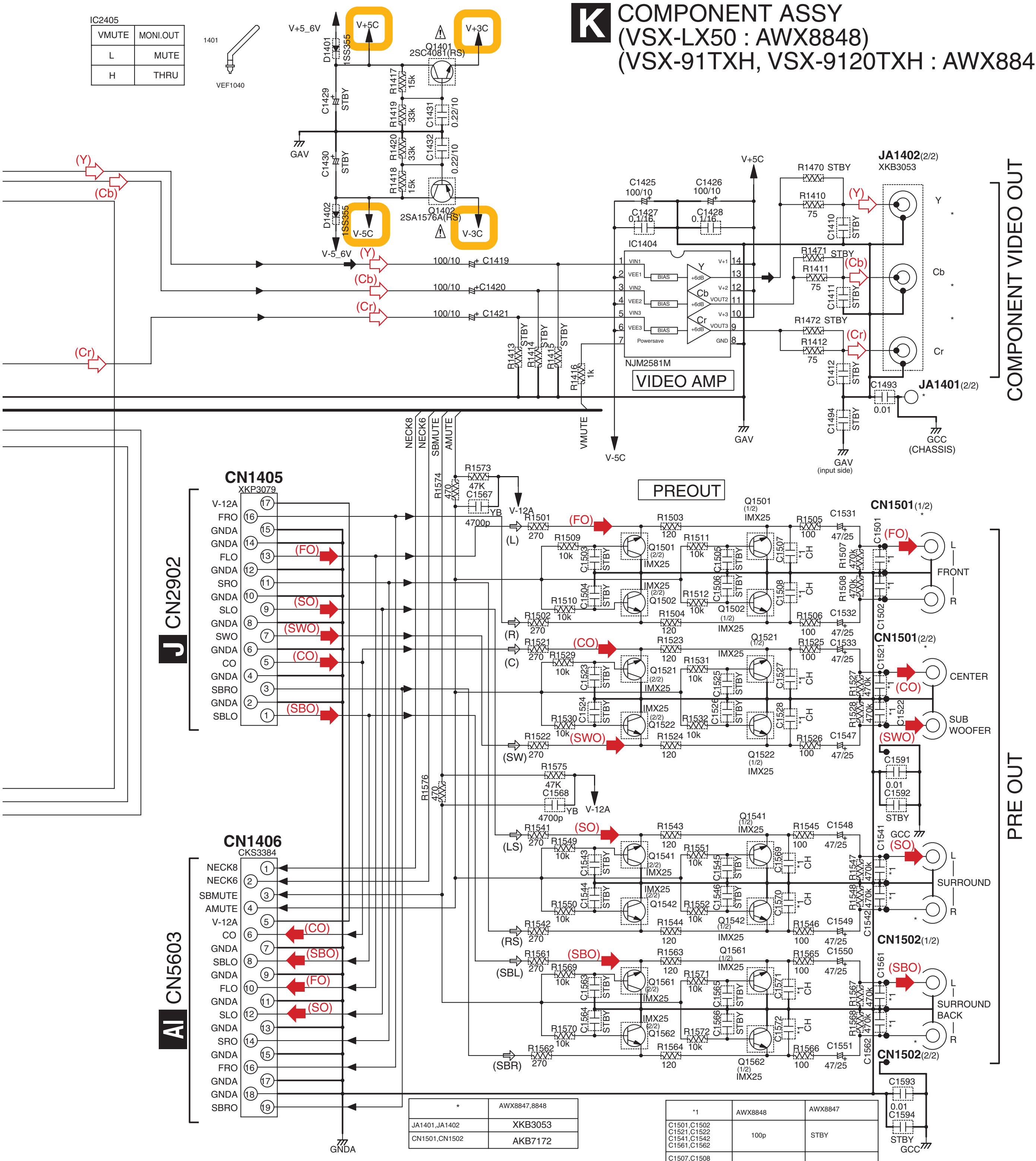
(Cb) ⇨: Video Signal Route (Component Cb ch)

(Cr) ⇨: Video Signal Route (Component Cr ch)

K COMPONENT ASSY (VSX-LX50 : AWX8848) (VSX-91TXH, VSX-9120TXH : AWX8847)

IC2405

VMUTE	MONI.OUT
L	MUTE
H	THRU

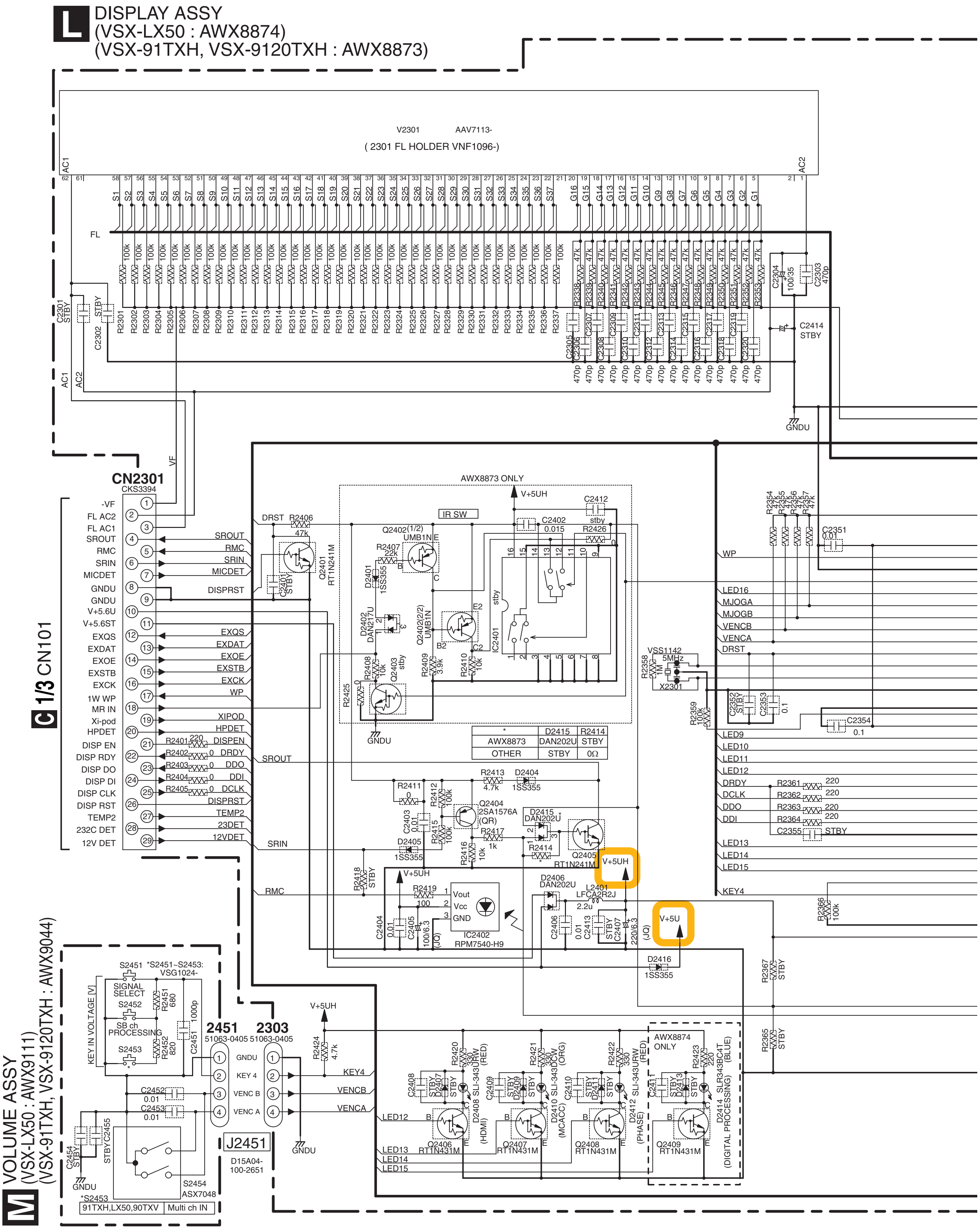

1401
VEF1040
V+5_6V
D1401 1SS355
V+5C
V+3C
Q1401 2SC4081(RS)
R1417 15k
C1429 STBY
R1419 33k
C1431 0.22/10
GAV
R1420 33k
C1432 0.22/10
C1430 STBY
R1418 15k
D1402 1SS355
Q1402 2SA1576A(RS)
V-5C
V-3C
V-5_6V
(Y)
(Cb)
(Cr)
100/10 C1419
100/10 C1420
100/10 C1421
R1413 STBY
R1414 STBY
R1415 STBY
R1416 1k
C1425 100/10
C1426 100/10
C1427 0.1/16
C1428 0.1/16
IC1404
VIN1 VEE1 VIN2 VEE2 VIN3 VEE3
BIAS
+6dB
V+1 V+2 V+3 VOUT2 VOUT3 GND
Powersave
NJM2581M
VIDEO AMP
V+5C
R1470 STBY
R1410 75
C1410 STBY
R1471 STBY
R1411 75
C1411 STBY
R1472 STBY
R1412 75
C1412 STBY
C1494 STBY
GAV (input side)
C1493 0.01
JA1402 (2/2) XKB3053
Y Cb Cr
JA1401 (2/2)
GCC (CHASSIS)
COMPONENT VIDEO OUT
NECK8 NECK6 SBMUTE AMUTE
VMUTE
V-5C
R1573 47K
R1574 470
C1567 4700p
YB
V-12A
CN1405 XKP3079
V-12A FRO GNDA GNDA FLO GNDA SRO GNDA SLO GNDA SWO GNDA CO GNDA SBRO GNDA SBLO
(FO) (SO) (SWO) (CO) (SBO)
J CN2902
PREOUT
R1501 270 (L)
R1509 10k
R1503 120
Q1501 IMX25
R1511 10k
R1505 100
C1531 47/25
CN1501 (1/2)
FRONT L R
R1502 270 (R)
R1510 10k
R1504 120
Q1502 IMX25
R1512 10k
R1506 100
C1532 47/25
R1507 470k
R1508 470k
CN1501 (2/2)
R1521 270 (C)
R1529 10k
R1523 120
Q1521 IMX25
R1531 10k
R1525 100
C1533 47/25
CENTER
SUB WOOFER
R1522 270 (SW)
R1530 10k
R1524 120
Q1522 IMX25
R1532 10k
R1526 100
C1547 47/25
R1527 470k
R1528 470k
C1591 0.01
C1592 STBY
R1575 47K
R1576 470
C1568 4700p
R1541 270 (LS)
R1549 10k
R1543 120
Q1541 IMX25
R1551 10k
R1545 100
C1548 47/25
GCC
SURROUND L R
R1542 270 (RS)
R1550 10k
R1544 120
Q1542 IMX25
R1552 10k
R1546 100
C1549 47/25
R1547 470k
R1548 470k
CN1502 (1/2)
R1561 270 (SBL)
R1569 10k
R1563 120
Q1561 IMX25
R1571 10k
R1565 100
C1550 47/25
SURROUND BACK L R
R1562 270 (SBR)
R1570 10k
R1564 120
Q1562 IMX25
R1572 10k
R1566 100
C1551 47/25
R1567 470k
R1568 470k
CN1502 (2/2)
C1593 0.01
C1594 STBY
GCC
PRE OUT
CN1406 CKS3384
NECK8 NECK6 SBMUTE AMUTE V-12A CO GNDA SBLO GNDA FLO GNDA SLO GNDA SRO GNDA FRO GNDA GNDA SBRO
AI CN5603
GNDA
STBY CH *1

*	AWX8847,8848
JA1401,JA1402	XKB3053
CN1501,CN1502	AKB7172

*1	AWX8848	AWX8847
C1501,C1502 C1521,C1522 C1541,C1542 C1561,C1562	100p	STBY
C1507,C1508 C1527,C1528 C1569,C1570 C1571,C1572	270p	STBY

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

10.13 DISPLAY, VOLUME and MULTI JOG ASSYS



L DISPLAY ASSY
(VSX-LX50 : AWX8874)
(VSX-91TXH, VSX-9120TXH : AWX8873)
V2301 AAV7113-
(2301 FL HOLDER VNF1096-)
AC1
AC2
S1 … S37
G16 … G1
FL
100k
47k
R2301 … R2337
R2338 … R2353
C2301 STBY
C2302 STBY
C2303 470p
C2304 100/35
C2305 … C2320 470p
C2414 STBY
GNDU
VF
CN2301
CKS3394
C 1/3 CN101
-VF
FL AC2
FL AC1
SROUT
RMC
SRIN
MICDET
GNDU
GNDU
V+5.6U
V+5.6ST
EXQS
EXDAT
EXOE
EXSTB
EXCK
1W WP
MR IN
Xi-pod
HPDET
DISP EN
DISP RDY
DISP DO
DISP DI
DISP CLK
DISP RST
TEMP2
232C DET
12V DET
DISPRST
XIPOD
DISPEN
DRDY
DDO
DDI
DCLK
23DET
12VDET
R2401 220
R2402 0
R2403 0
R2404 0
R2405 0
DRST
R2406 47k
Q2401 RT1N241M
C2401 STBY
AWX8873 ONLY
V+5UH
C2412 stby
C2402 0.015
R2426
IR SW
Q2402(1/2) UMB1N
R2407 22k
D2401 1SS355
D2402 DAN217U
Q2402(2/2) UMB1N
IC2401
stby
R2408 10k
Q2403 stby
R2409 3.9k
R2410 10k
R2425 0
R2411 0
R2412 100k
R2413 4.7k
D2404 1SS355
Q2404 2SA1576A (QR)
D2415 DAN202U
R2417 1k
R2414
Q2405 RT1N241M
C2403 0.01
R2415 100k
R2416 10k
D2405 1SS355
R2418 STBY
R2419 100
Vout
Vcc
GND
IC2402 RPM7540-H9
C2404 0.01
C2405 100/6.3 (JQ)
D2406 DAN202U
L2401 LFCA2R2J 2.2u
C2406 0.01
C2413 STBY
C2407 220/6.3 (JQ)
V+5U
D2416 1SS355
WP
LED16
MJOGA
MJOGB
VENCB
VENCA
DRST
R2354 … R2357 47k
C2351 0.01
VSS1142 5MHz
R2358 1M
X2301
R2359 100k
C2352 STBY
C2353 0.1
C2354 0.1
LED9
LED10
LED11
LED12
DRDY
DCLK
DDO
DDI
R2361 220
R2362 220
R2363 220
R2364 220
C2355 STBY
LED13
LED14
LED15
KEY4
R2366 100k
R2367 STBY
R2365 STBY
AWX8874 ONLY
R2420 330
R2421 330
R2422 330
R2423 220
C2408 STBY
C2409 STBY
C2410 STBY
C2411 STBY
D2408 SLI-343URW (RED) (HDMI)
D2410 SLI-343DCW (ORG) (MCACC)
D2412 SLI-343URW (RED) (PHASE)
D2414 SLR343BC4T (BLUE) (DIGITAL PROCESSING)
Q2406 RT1N431M
Q2407 RT1N431M
Q2408 RT1N431M
Q2409 RT1N431M
LED12
LED13
LED14
LED15
R2424 4.7k
KEY4
VENCB
VENCA
2451 51063-0405
2303 51063-0405
GNDU
KEY 4
VENC B
VENC A
J2451
D15A04-100-2651
S2451 *S2451~S2453: VSG1024-
SIGNAL SELECT
S2452
SB ch PROCESSING
S2453
KEY IN VOLTAGE [V]
R2451 680
R2452 820
C2451 1000p
C2452 0.01
C2453 0.01
C2454 STBY
C2455 STBY
S2454 ASX7048
*S2453
91TXH,LX50,90TXV
Multi ch IN
M VOLUME ASSY
(VSX-LX50 : AWX9111)
(VSX-91TXH, VSX-9120TXH : AWX9044)

*	D2415	R2414
AWX8873	DAN202U	STBY
OTHER	STBY	0Ω

L M

N MULTI JOG ASSY
(VSX-LX50 : AWX8880)
(VSX-91TXH, VSX-9120TXH : AWX8879)

*KEY NAME	S2551	S2552	S2553	S2554	S2555	S2556	S2557	S2558	S2565	S2566	S2572	S2573	S2577
VSX-91TXH VSX-9120TXH	VIDEO /GAME	CD	CD-R /TAPE /MD	FM/ AM	XM	SIRIUS	iPOD	HDMI	TUNING STATION	TUNER EDIT	Multi ZONE	Multi ZONE Control	DVR1/ DVR2
	DVR/ VCR2	VIDEO /GAME	CD	CD-R /TAPE /MD	FM/ AM	XM	SIRIUS	iPOD			Phase Control	Acoustic EQ	DVR/ VCR1
VSX-LX50	DVR/ VCR2	VIDEO /GAME	CD	CD-R /TAPE /MD	FM/ AM	USB	iPOD	HDMI Multi ch IN	↑	↑	EON MODE	PTY SEARTH	DVR/ VCR1

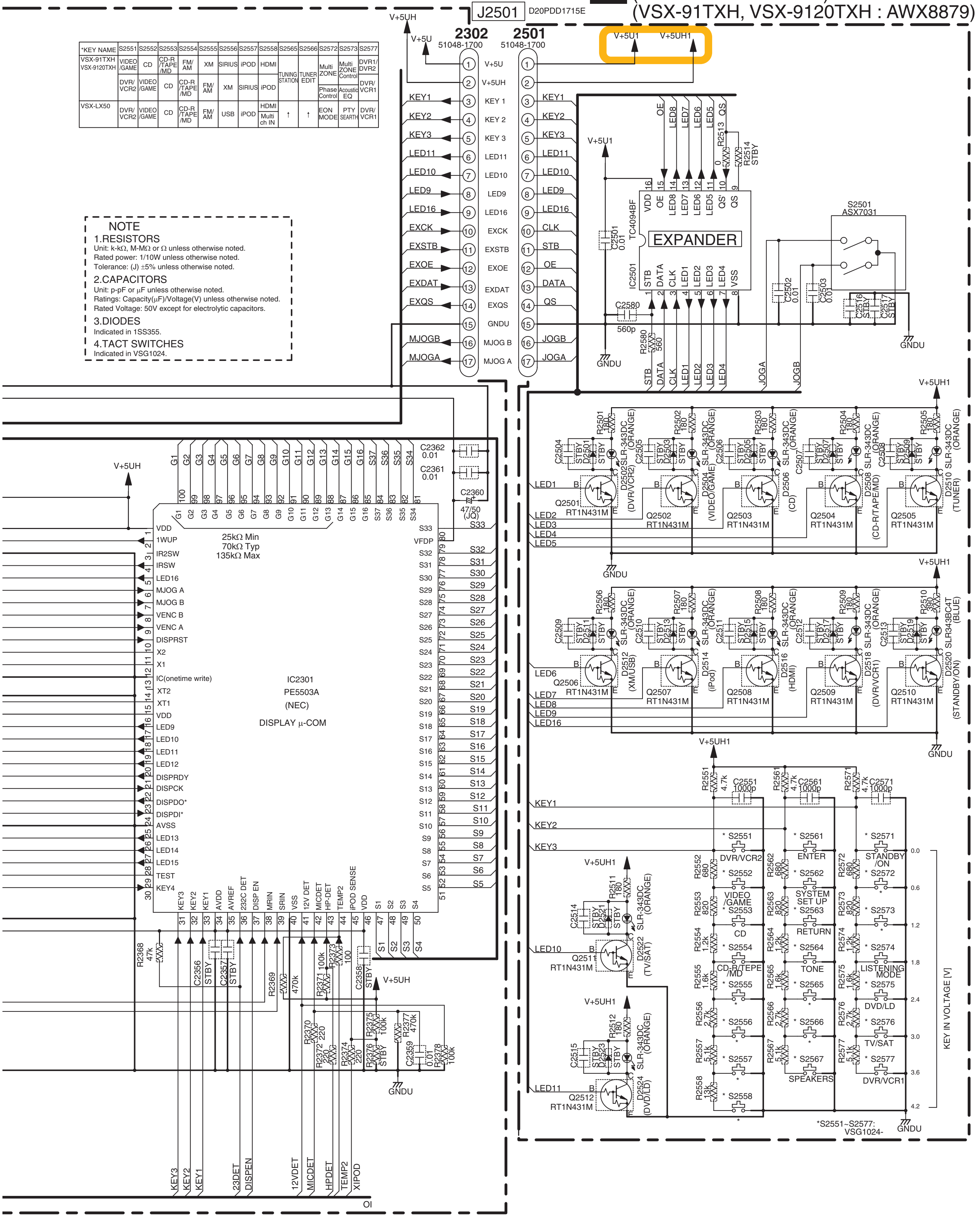
NOTE

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

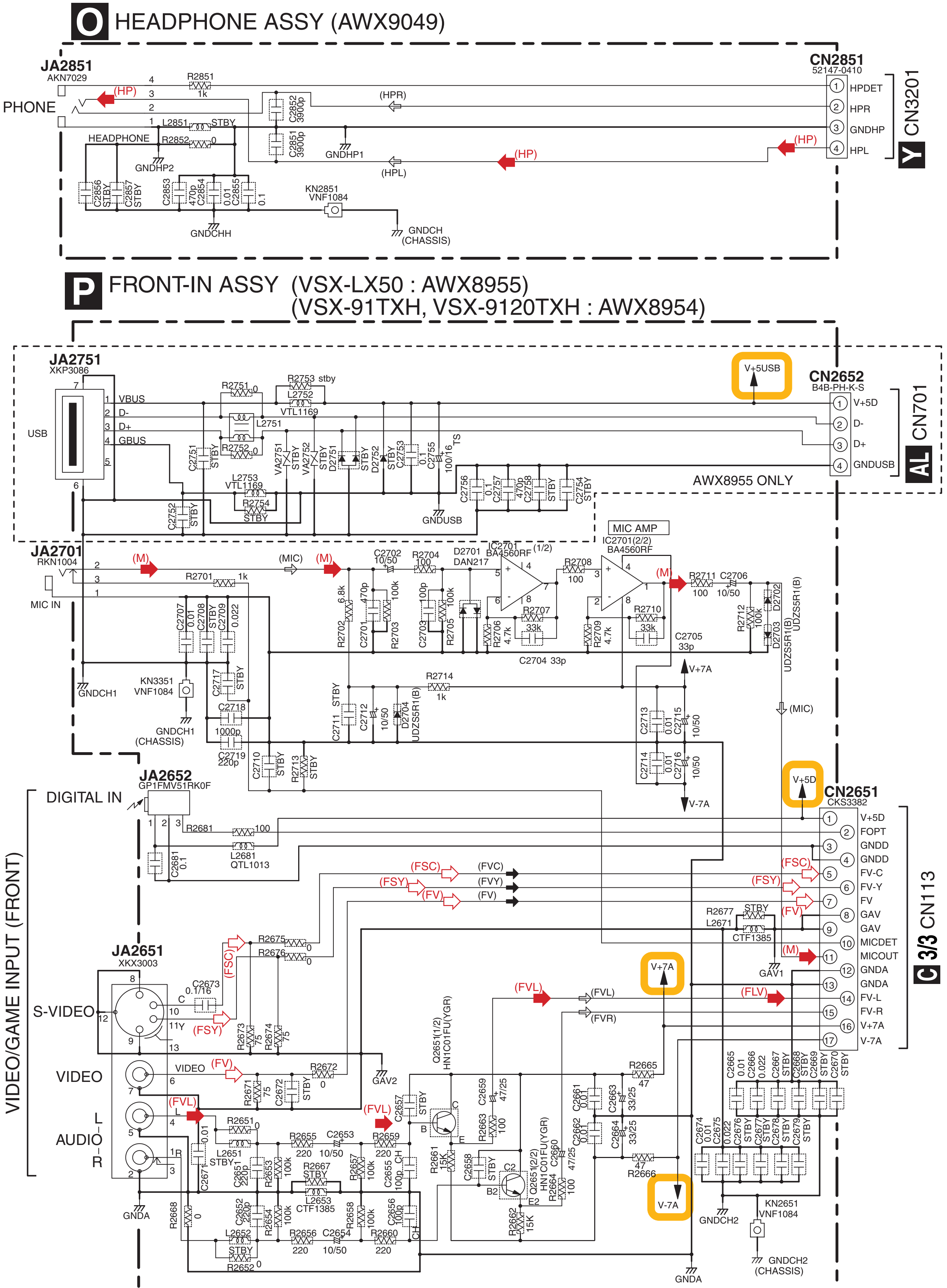
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

3.DIODES
Indicated in 1SS355.

4.TACT SWITCHES
Indicated in VSG1024.


J2501
D20PDD1715E
2302
51048-1700
2501
51048-1700
V+5U
V+5UH
V+5U1
V+5UH1
KEY1
KEY2
KEY3
LED11
LED10
LED9
LED16
EXCK
EXSTB
EXOE
EXDAT
EXQS
GNDU
MJOGB
MJOGA
MJOG B
MJOG A
CLK
STB
OE
DATA
QS
JOGB
JOGA
IC2501
TC4094BF
EXPANDER
VDD
LED8
LED7
LED6
LED5
QS'
VSS
LED1
LED2
LED3
LED4
R2513
R2514
STBY
C2501
0.01
C2502
0.01
C2503
0.01
C2580
560p
R2580
560
S2501
ASX7031
C2516
C2517
D2502
(DVR/VCR2)
D2504
(VIDEO/GAME)
D2506
(CD)
D2508
(CD-R/TAPE/MD)
D2510
(TUNER)
SLR-343DC
(ORANGE)
SLR-343BC4T
(BLUE)
D2512
(XM/USB)
D2514
(iPod)
D2516
(HDMI)
D2518
(DVR/VCR1)
D2520
(STANDBY/ON)
D2522
(TV/SAT)
D2524
(DVD/LD)
Q2501
Q2502
Q2503
Q2504
Q2505
Q2506
Q2507
Q2508
Q2509
Q2510
Q2511
Q2512
RT1N431M
IC2301
PE5503A
(NEC)
DISPLAY μ-COM
25kΩ Min
70kΩ Typ
135kΩ Max
C2360
47/50
(JQ)
C2361
0.01
C2362
0.01
R2368
47k
C2356
C2357
R2369
470k
R2371
100k
R2373
100
C2358
R2370
220
R2372
220
R2374
220
R2375
100k
R2376
100k
R2377
470k
C2359
0.01
R2378
100k
GNDU
DVR/VCR2
ENTER
STANDBY /ON
VIDEO /GAME
SYSTEM SET UP
CD
RETURN
CD-R/TEPE /MD
TONE
LISTENING MODE
DVD/LD
TV/SAT
SPEAKERS
DVR/VCR1
KEY IN VOLTAGE [V]
0.0
0.6
1.2
1.8
2.4
3.0
3.6
4.2
*S2551~S2577:
VSG1024-
KEY3
KEY2
KEY1
23DET
DISPEN
12VDET
MICDET
HPDET
TEMP2
XIPOD
OI

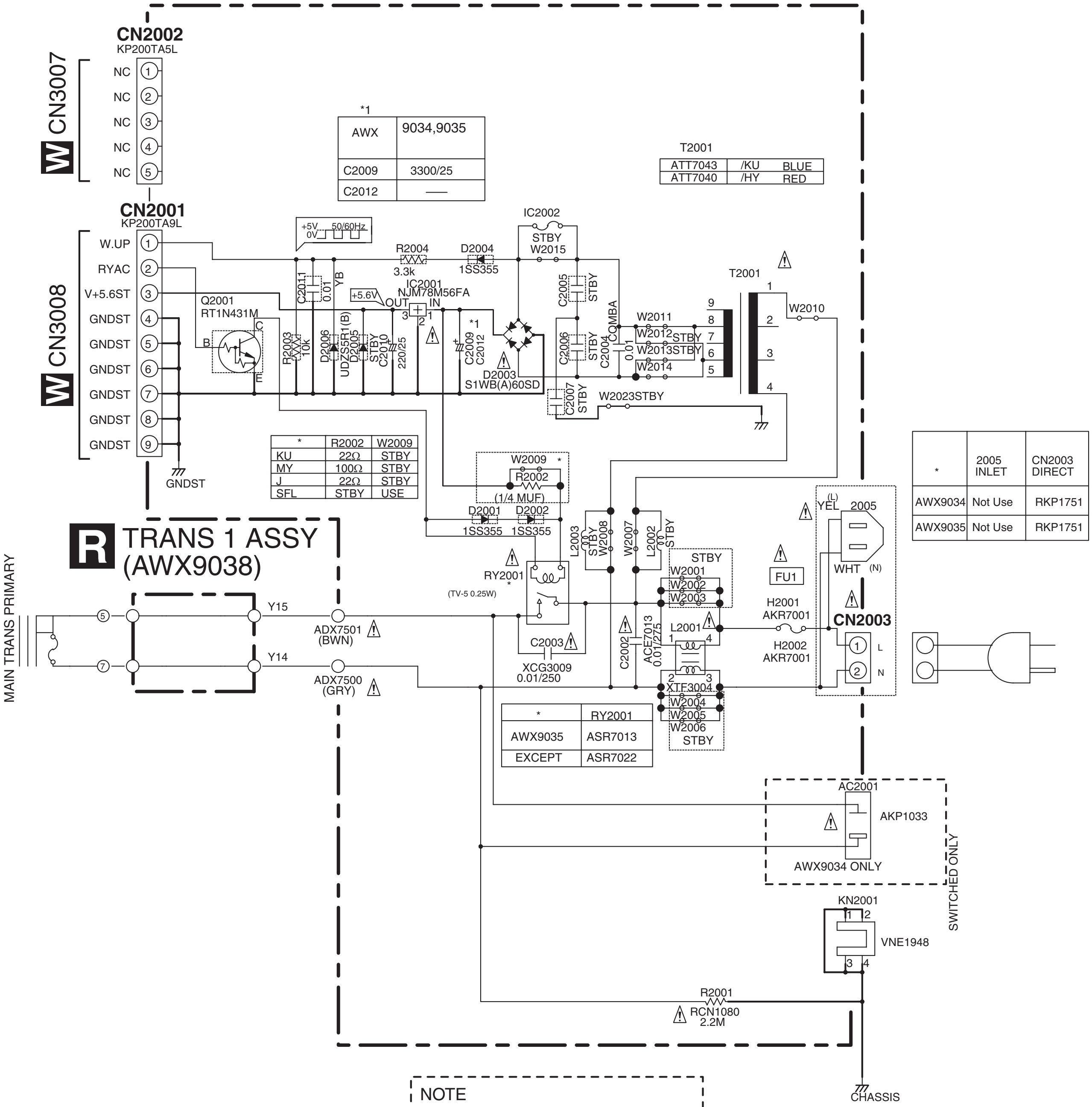
10.14 HEADPHONE, FRONT-IN, PRIMARY and TRANS 1 ASSYS



O HEADPHONE ASSY (AWX9049)
JA2851
AKN7029
PHONE
(HP)
R2851 1k
L2851 STBY
HEADPHONE
R2852 0
GNDHP2
C2856 STBY
C2857 STBY
C2853 470p
C2854 0.01
C2855 0.1
C2852 3900p
C2851 3900p
GNDHP1
(HPR)
(HPL)
KN2851 VNF1084
GNDCHH
GNDCH (CHASSIS)
CN2851
52147-0410
HPDET
HPR
GNDHP
HPL
Y CN3201
P FRONT-IN ASSY (VSX-LX50 : AWX8955) (VSX-91TXH, VSX-9120TXH : AWX8954)
JA2751
XKP3086
USB
VBUS
D-
D+
GBUS
R2751 0
R2753 stby
L2752 VTL1169
L2751
R2752 0
L2753 VTL1169
R2754 STBY
C2751 STBY
C2752 STBY
VA2751 STBY
VA2752 STBY
D2751 STBY
D2752 STBY
C2753 0.1
C2755 100/16 TS
C2756 0.1
C2757 470p
C2758 STBY
C2754 STBY
GNDUSB
V+5USB
CN2652
B4B-PH-K-S
V+5D
D-
D+
GNDUSB
AL CN701
AWX8955 ONLY
JA2701
RKN1004
MIC IN
(M)
(MIC)
R2701 1k
C2707 0.01
C2708 STBY
C2709 0.022
C2717 STBY
C2718 1000p
C2719 220p
C2710 STBY
R2713 STBY
KN3351 VNF1084
GNDCH1
GNDCH1 (CHASSIS)
C2702 10/50
R2702 6.8k
C2701 470p
R2703 100k
R2704 100
C2703 100p
R2705 100k
D2701 DAN217
IC2701 BA4560RF (1/2)
IC2701(2/2) BA4560RF
MIC AMP
R2706 4.7k
R2707 33k
C2704 33p
R2708 100
R2709 4.7k
R2710 33k
R2711 100
C2706 10/50
C2705 33p
R2712 100k
D2702 UDZS5R1(B)
D2703 UDZS5R1(B)
R2714 1k
C2711 STBY
C2712 10/50
D2704 UDZS5R1(B)
C2713 0.01
C2715 10/50
C2714 0.01
C2716 10/50
V+7A
V-7A
(MIC)
V+5D
CN2651
CKS3382
V+5D
FOPT
GNDD
GNDD
FV-C
FV-Y
FV
GAV
GAV
MICDET
MICOUT
GNDA
GNDA
FV-L
FV-R
V+7A
V-7A
C 3/3 CN113
DIGITAL IN
JA2652
GP1FMV51RK0F
R2681 100
L2681 QTL1013
C2681 0.1
(FSC)
(FSY)
(FV)
(FVC)
(FVY)
(FV)
R2677 STBY
L2671 CTF1385
GAV1
VIDEO/GAME INPUT (FRONT)
JA2651
XKX3003
S-VIDEO
C2673 0.1/16
R2675 0
R2676 0
R2673 75
R2674 75
VIDEO
R2671 75
C2672 STBY
R2672 0
GAV2
AUDIO L R
(FVL)
(FLV)
(FVR)
R2651 0
L2651 STBY
C2671 0.01
C2651 220p
R2653 100k
R2655 220
C2653 10/50
R2667 STBY
L2653 CTF1385
R2657 100k
R2659 220
C2655 100p CH
C2657 STBY
Q2651(1/2) HN1C01FU(YGR)
Q2651(2/2) HN1C01FU(YGR)
C2659 47/25
R2663 100
R2661 15K
C2658 STBY
C2660 47/25
R2664 100
R2662 15K
C2661 0.01
C2662 0.01
C2663 33/25
C2664 33/25
R2665 47
R2666 47
C2665 0.01
C2666 0.022
C2667 STBY
C2668 STBY
C2669 STBY
C2670 STBY
C2674 0.01
C2675 0.022
C2676 STBY
C2677 STBY
C2678 STBY
C2679 STBY
KN2651 VNF1084
GNDCH2
GNDCH2 (CHASSIS)
GNDA
R2668 0
C2652 220p
R2654 100k
L2652 STBY
R2652 0
R2656 220
C2654 10/50
R2658 100k
R2660 220
C2656 100p CH

O P

Q PRIMARY ASSY (VSX-LX50 : AWX9035)
(VSX-91TXH, VSX-9120TXH : AWX9034)


W CN3007
CN2002
KP200TA5L
NC 1
NC 2
NC 3
NC 4
NC 5
W CN3008
CN2001
KP200TA9L
W.UP 1
RYAC 2
V+5.6ST 3
GNDST 4
GNDST 5
GNDST 6
GNDST 7
GNDST 8
GNDST 9
GNDST
Q2001
RT1N431M
B
C
E
+5V
0V
50/60Hz
R2003
10k
C2011
0.01
YB
D2006
UDZS5R1(B)
D2005
STBY
C2010
220/25
+5.6V
R2004
3.3k
D2004
1SS355
IC2001
NJM78M56FA
OUT
IN
*1
C2009
C2012
D2003
S1WB(A)60SD
IC2002
STBY
W2015
C2005
STBY
C2006
STBY
C2004
0.01
COMBA
W2011
W2012 STBY
W2013 STBY
W2014
T2001
W2010
C2007
STBY
W2023 STBY
W2009
R2002
(1/4 MUF)
D2001
1SS355
D2002
1SS355
L2003
STBY
W2008
W2007
L2002
STBY
STBY
W2001
W2002
W2003
RY2001
(TV-5 0.25W)
C2003
XCG3009
0.01/250
C2002
ACE7013
0.01/275
L2001
XTF3004
W2004
W2005
W2006
STBY
FU1
H2001
AKR7001
H2002
AKR7001
YEL (L)
2005
WHT (N)
CN2003
L
N
AC2001
AKP1033
AWX9034 ONLY
SWITCHED ONLY
KN2001
VNE1948
R2001
RCN1080
2.2M
CHASSIS
R TRANS 1 ASSY
(AWX9038)
MAIN TRANS PRIMARY
Y15
Y14
ADX7501
(BWN)
ADX7500
(GRY)

*1

AWX	9034,9035
C2009	3300/25
C2012	——

T2001

ATT7043	/KU	BLUE
ATT7040	/HY	RED

*	R2002	W2009
KU	22Ω	STBY
MY	100Ω	STBY
J	22Ω	STBY
SFL	STBY	USE

*	2005 INLET	CN2003 DIRECT
AWX9034	Not Use	RKP1751
AWX9035	Not Use	RKP1751

*	RY2001
AWX9035	ASR7013
EXCEPT	ASR7022

NOTE

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

3.DIODES
Indicated in 1SS355.

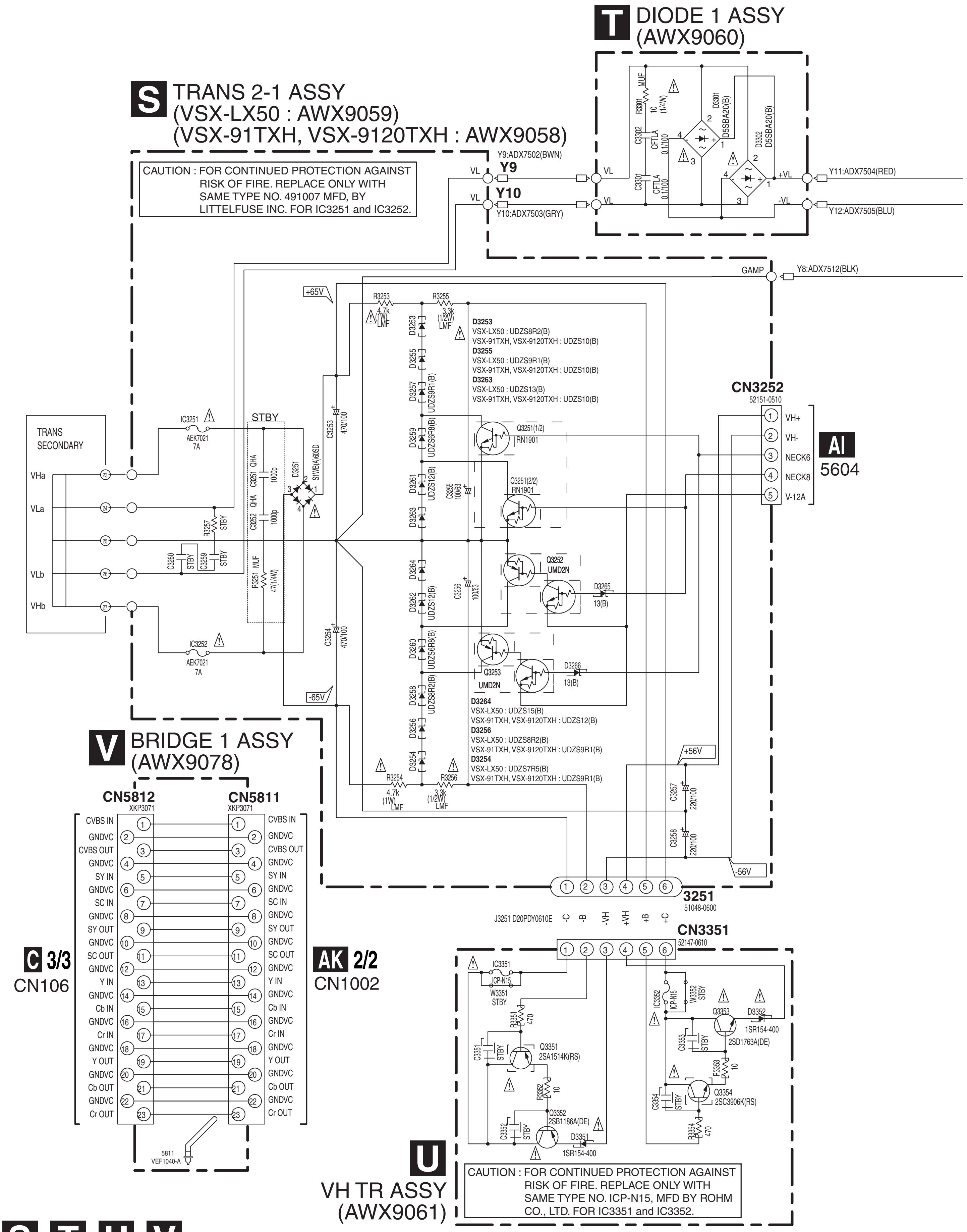
- NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore,when replacing, be sure to use parts of identical designation.

(L) ➡ : Audio Signal Route (L ch)
(M) ➡ : Audio Signal Route (Mic ch)
(V) ⇨ : Video Signal Route
(SY) ⇨ : S-Video Signal Route (Y ch)
(SC) ⇨ : S-Video Signal Route (C ch)

10.15 TRANS 2-1, DIODE 1, VH TR, BRIDGE 1 and PS/SP ASSYS



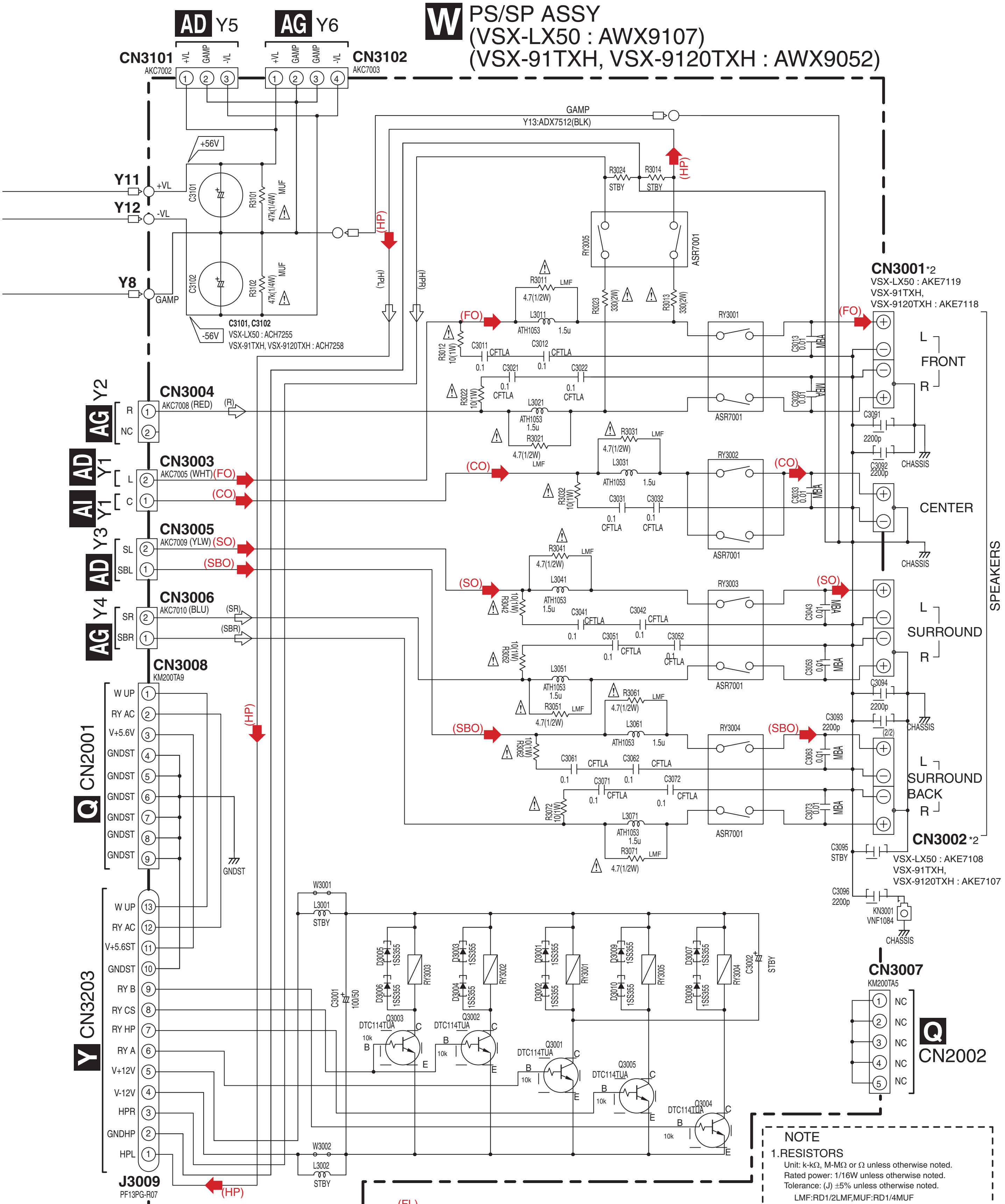
T DIODE 1 ASSY (AWX9060)
S TRANS 2-1 ASSY (VSX-LX50 : AWX9059) (VSX-91TXH, VSX-9120TXH : AWX9058)
R3301 10 (1/4W) MUF
C3302 CFTLA 0.1/100
C3301 CFTLA 0.1/100
D3301 D5SBA20(B)
D3302 D5SBA20(B)
VL
Y9
Y9:ADX7502(BWN)
Y10
Y10:ADX7503(GRY)
+VL
-VL
Y11:ADX7504(RED)
Y12:ADX7505(BLU)
GAMP
Y8:ADX7512(BLK)
+65V
-65V
R3253 4.7k (1W) LMF
R3255 3.3k (1/2W) LMF
R3254 4.7k (1W) LMF
R3256 3.3k (1/2W) LMF
D3253 VSX-LX50 : UDZS8R2(B) VSX-91TXH, VSX-9120TXH : UDZS10(B)
D3255 VSX-LX50 : UDZS9R1(B) VSX-91TXH, VSX-9120TXH : UDZS10(B)
D3263 VSX-LX50 : UDZS13(B) VSX-91TXH, VSX-9120TXH : UDZS10(B)
D3257 UDZS9R1(B)
D3259 UDZS6R8(B)
D3261 UDZS12(B)
D3264
D3262 UDZS12(B)
D3260 UDZS6R8(B)
D3258 UDZS8R2(B)
D3256
D3254
D3264 VSX-LX50 : UDZS15(B) VSX-91TXH, VSX-9120TXH : UDZS12(B)
D3256 VSX-LX50 : UDZS8R2(B) VSX-91TXH, VSX-9120TXH : UDZS9R1(B)
D3254 VSX-LX50 : UDZS7R5(B) VSX-91TXH, VSX-9120TXH : UDZS9R1(B)
C3253 470/100
C3254 470/100
C3255 100/63
C3256 100/63
Q3251(1/2) RN1901
Q3251(2/2) RN1901
Q3252 UMD2N
Q3253 UMD2N
D3265 13(B)
D3266 13(B)
CN3252 52151-0510
VH+ VH- NECK6 NECK8 V-12A
AI 5604
TRANS SECONDARY
VHa VLa VLb VHb
23 24 25 26 27
IC3251 AEK7021 7A
IC3252 AEK7021 7A
STBY
C3251 QHA 1000p
C3252 QHA 1000p
D3251 S1WB(A)60SD
R3257 STBY
C3260 STBY
C3259 STBY
R3251 MUF 47(1/4W)
+56V
-56V
C3257 220/100
C3258 220/100
3251 51048-0600
J3251 D20PDY0610E -C -B -VH +VH +B +C
CN3351 52147-0610
V BRIDGE 1 ASSY (AWX9078)
CN5812 XKP3071
CN5811 XKP3071
CVBS IN, GNDVC, CVBS OUT, GNDVC, SY IN, GNDVC, SC IN, GNDVC, SY OUT, GNDVC, SC OUT, GNDVC, Y IN, GNDVC, Cb IN, GNDVC, Cr IN, GNDVC, Y OUT, GNDVC, Cb OUT, GNDVC, Cr OUT
CVBS IN, GNDVC, CVBS OUT, GNDVC, SY IN, GNDVC, SC IN, GNDVC, SY OUT, GNDVC, SC OUT, GNDVC, Y IN, GNDVC, Cb IN, GNDVC, Cr IN, GNDVC, Y OUT, GNDVC, Cb OUT, GNDVC, Cr OUT
5811 VEF1040-A
C 3/3 CN106
AK 2/2 CN1002
IC3351 ICP-N15
W3351 STBY
R3351 470
C3351 STBY
Q3351 2SA1514K(RS)
R3352 10
Q3352 2SB1186A(DE)
C3352 STBY
D3351 1SR154-400
IC3352 ICP-N15
W3352 STBY
Q3353 2SD1763A(DE)
D3352 1SR154-400
C3353 STBY
R3353 10
Q3354 2SC3906K(RS)
C3354 STBY
R3354 470
U VH TR ASSY (AWX9061)

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491007 MFD, BY LITTELFUSE INC. FOR IC3251 and IC3252.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N15, MFD BY ROHM CO., LTD. FOR IC3351 and IC3352.

S T U V

W PS/SP ASSY
(VSX-LX50 : AWX9107)
(VSX-91TXH, VSX-9120TXH : AWX9052)


AD Y5
AG Y6
CN3101
AKC7002
+VL
GAMP
-VL
CN3102
AKC7003
+VL
GAMP
GAMP
-VL
GAMP
Y13:ADX7512(BLK)
+56V
-56V
Y11
+VL
Y12
-VL
Y8
GAMP
C3101
C3102
R3101
47k(1/4W)
MUF
R3102
47k(1/4W)
MUF
C3101, C3102
VSX-LX50 : ACH7255
VSX-91TXH, VSX-9120TXH : ACH7258
(HP)
(HPL)
(HPR)
R3024
STBY
R3014
STBY
RY3005
ASR7001
R3023
330(2W)
R3013
330(2W)
R3011
4.7(1/2W)
LMF
L3011
ATH1053
1.5u
R3012
10(1W)
C3011
0.1
CFTLA
C3012
0.1
CFTLA
C3021
0.1
CFTLA
C3022
0.1
CFTLA
R3022
10(1W)
L3021
ATH1053
1.5u
R3021
4.7(1/2W)
LMF
RY3001
ASR7001
C3013
0.01
MBA
C3023
0.01
MBA
(FO)
CN3001*2
VSX-LX50 : AKE7119
VSX-91TXH,
VSX-9120TXH : AKE7118
L
FRONT
R
C3091
2200p
C3092
2200p
CHASSIS
AG Y2
CN3004
AKC7008 (RED)
R
NC
(R)
AD Y1
AI Y1
CN3003
AKC7005 (WHT)
L
C
(FO)
(CO)
R3031
4.7(1/2W)
LMF
L3031
ATH1053
1.5u
R3032
10(1W)
C3031
0.1
CFTLA
C3032
0.1
CFTLA
RY3002
ASR7001
C3033
0.01
MBA
CENTER
CHASSIS
SPEAKERS
AD Y3
CN3005
AKC7009 (YLW)
SL
SBL
(SO)
(SBO)
AG Y4
CN3006
AKC7010 (BLU)
SR
SBR
(SR)
(SBR)
R3041
4.7(1/2W)
LMF
L3041
ATH1053
1.5u
R3042
10(1W)
C3041
0.1
CFTLA
C3042
0.1
CFTLA
C3051
0.1
CFTLA
C3052
0.1
CFTLA
R3052
10(1W)
L3051
ATH1053
1.5u
R3051
4.7(1/2W)
LMF
RY3003
ASR7001
C3043
0.01
MBA
C3053
0.01
MBA
L
SURROUND
R
C3094
2200p
C3093
2200p
(2/2)
CHASSIS
CN3008
KM200TA9
Q CN2001
W UP
RY AC
V+5.6V
GNDST
GNDST
GNDST
GNDST
GNDST
GNDST
GNDST
R3061
4.7(1/2W)
LMF
L3061
ATH1053
1.5u
R3062
10(1W)
C3061
0.1
CFTLA
C3062
0.1
CFTLA
C3071
0.1
CFTLA
C3072
0.1
CFTLA
R3072
10(1W)
L3071
ATH1053
1.5u
R3071
4.7(1/2W)
LMF
RY3004
ASR7001
C3063
0.01
MBA
C3073
0.01
MBA
L
SURROUND
BACK
R
CN3002*2
VSX-LX50 : AKE7108
VSX-91TXH,
VSX-9120TXH : AKE7107
C3095
STBY
C3096
2200p
KN3001
VNF1084
CHASSIS
W3001
L3001
STBY
Y CN3203
W UP
RY AC
V+5.6ST
GNDST
RY B
RY CS
RY HP
RY A
V+12V
V-12V
HPR
GNDHP
HPL
J3009
PF13PG-R07
(HP)
W3002
L3002
STBY
C3001
100/50
D3005
1SS355
D3006
1SS355
RY3003
D3003
1SS355
D3004
1SS355
RY3002
D3001
1SS355
D3002
1SS355
RY3001
D3009
1SS355
D3010
1SS355
RY3005
D3007
1SS355
D3008
1SS355
RY3004
C3002
STBY
Q3003
DTC114TUA
Q3002
DTC114TUA
Q3001
DTC114TUA
Q3005
DTC114TUA
Q3004
DTC114TUA
10k
B
C
E
CN3007
KM200TA5
NC
NC
NC
NC
NC
Q CN2002

AWX *2	9052 9054	9053 9055 9107 9108
CN3001 CN3002	AKE7118 AKE7107	AKE7119 AKE7108

(FL) ➡ : Audio Signal Route (Front L ch)

(SL) ➡ : Audio Signal Route (Surround L ch)

(C) ➡ : Audio Signal Route (Center ch)

(SBL) ➡ : Audio Signal Route (Surround Back L ch)

NOTE

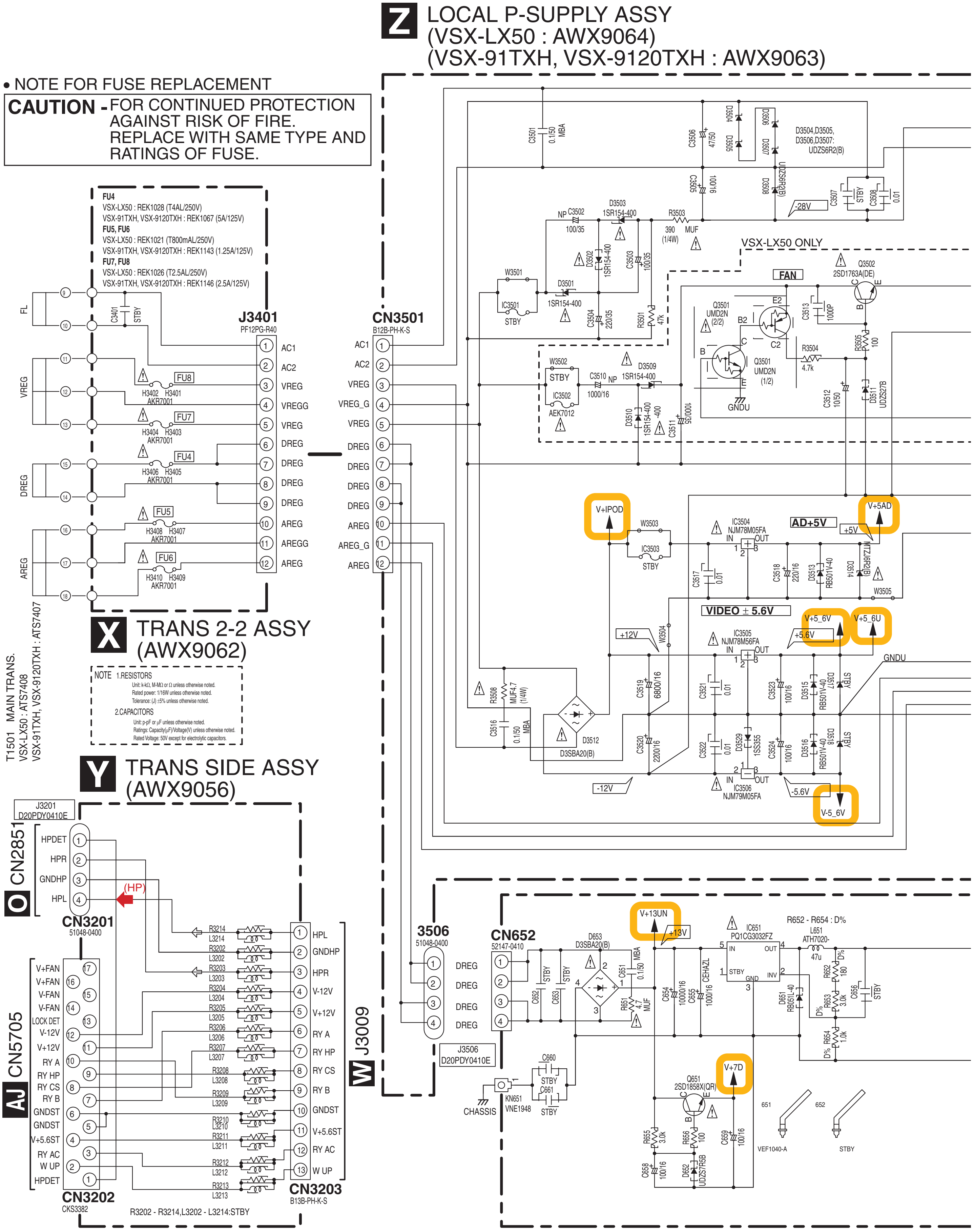
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
LMF:RD1/2LMF,MUF:RD1/4MUF

2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
MBA:CQMBA, LA:CFTLA, QHA:CQHA

10.16 TRANS 2-2, TRANS SIDE, LOCAL P-SUPPLY, DC/DC, IR I/O and VIDEO CONNECT ASSYS

- NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS OF FUSE.


Z LOCAL P-SUPPLY ASSY
(VSX-LX50 : AWX9064)
(VSX-91TXH, VSX-9120TXH : AWX9063)
FU4
VSX-LX50 : REK1028 (T4AL/250V)
VSX-91TXH, VSX-9120TXH : REK1067 (5A/125V)
FU5, FU6
VSX-LX50 : REK1021 (T800mAL/250V)
VSX-91TXH, VSX-9120TXH : REK1143 (1.25A/125V)
FU7, FU8
VSX-LX50 : REK1026 (T2.5AL/250V)
VSX-91TXH, VSX-9120TXH : REK1146 (2.5A/125V)
J3401
PF12PG-R40
AC1
AC2
VREG
VREGG
VREG
DREG
DREG
DREG
DREG
AREG
AREGG
AREG
CN3501
B12B-PH-K-S
VREG_G
AREG_G
FL
VREG
DREG
AREG
FU8
FU7
FU4
FU5
FU6
H3402 H3401 AKR7001
H3404 H3403 AKR7001
H3406 H3405 AKR7001
H3408 H3407 AKR7001
H3410 H3409 AKR7001
C3401 STBY
T1501 MAIN TRANS.
VSX-LX50 : ATS7408
VSX-91TXH, VSX-9120TXH : ATS7407
X TRANS 2-2 ASSY
(AWX9062)
Y TRANS SIDE ASSY
(AWX9056)
C3501 0.1/50 MBA
C3506 47/50
C3505 100/16
D3504 D3505 D3506 D3507 D3508
D3504,D3505,
D3506,D3507:
UDZS6R2(B)
UDZS6R2(B)
-28V
C3507 STBY C3508 0.01
NP C3502 100/35
D3503 1SR154-400
R3503 390 (1/4W) MUF
D3502 1SR154-400
C3503 100/35
W3501
IC3501 STBY
D3501 1SR154-400
C3504 220/35
R3501 47k
VSX-LX50 ONLY
FAN
Q3502 2SD1763A(DE)
Q3501 UMD2N (2/2)
B2 E2 C2
C3513 1000P
B C E
Q3501 UMD2N (1/2)
GNDU
R3504 4.7k
R3505 100
C3512 10/50
D3511 UDZS27B
W3502 STBY
IC3502 AEK7012
C3510 NP 1000/16
D3509 1SR154-400
D3510 1SR154-400
C3511 1000/35
V+IPOD
W3503
IC3503 STBY
IC3504 NJM78M05FA
IN OUT
AD+5V
+5V
V+5AD
C3517 0.01
C3518 220/16
D3513 RB501V-40
D3514 MTZJ6R2(B)
W3505
VIDEO ± 5.6V
V+5_6V
V+5_6U
+12V
W3504
IC3505 NJM78M56FA
+5.6V
GNDU
R3508 MUF4.7 (1/4W)
C3516 0.1/50 MBA
D3512 D3SBA20(B)
C3519 6800/16
C3521 0.01
C3523 100/16
D3515 RB501V-40
D3517 STBY
C3520 2200/16
C3522 0.01
D3529 1SS355
C3524 100/16
D3516 RB501V-40
D3518 STBY
-12V
IC3506 NJM79M05FA
-5.6V
V-5_6V
J3201
D20PDY0410E
O CN2851
HPDET
HPR
GNDHP
HPL
(HP)
CN3201
51048-0400
R3214 L3214
R3202 L3202
R3203 L3203
R3204 L3204
R3205 L3205
R3206 L3206
R3207 L3207
R3208 L3208
R3209 L3209
R3210 L3210
R3211 L3211
R3212 L3212
R3213 L3213
HPL
GNDHP
HPR
V-12V
V+12V
RY A
RY HP
RY CS
RY B
GNDST
V+5.6ST
RY AC
W UP
CN3203
B13B-PH-K-S
AJ CN5705
V+FAN
V+FAN
V-FAN
V-FAN
LOCK DET
V-12V
V+12V
RY A
RY HP
RY CS
RY B
GNDST
GNDST
V+5.6ST
RY AC
W UP
HPDET
CN3202
CKS3382
R3202 - R3214,L3202 - L3214:STBY
3506
51048-0400
DREG
DREG
DREG
DREG
J3506
D20PDY0410E
W J3009
CN652
52147-0410
D653 D3SBA20(B)
C652 STBY
C653 STBY
C651 0.1/50 MBA
R651 4.7 MUF
C654 10000/16
C655 1000/16 CEHAZL
V+13UN
+13V
IC651 PQ1CG3032FZ
IN OUT STBY GND INV
R652 - R654 : D%
L651 ATH7020-
47u
R652 180
C656 STBY
D651 RB051L-40
R653 3.0k
R654 1.0k
C660
STBY
C661
STBY
KN651 VNE1948
CHASSIS
V+7D
Q651 2SD1858X(QR)
R655 3.0k
R656 100
C659 100/16
C658 100/16
D652 UDZS7R5B
651 652
VEF1040-A
STBY

NOTE 1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

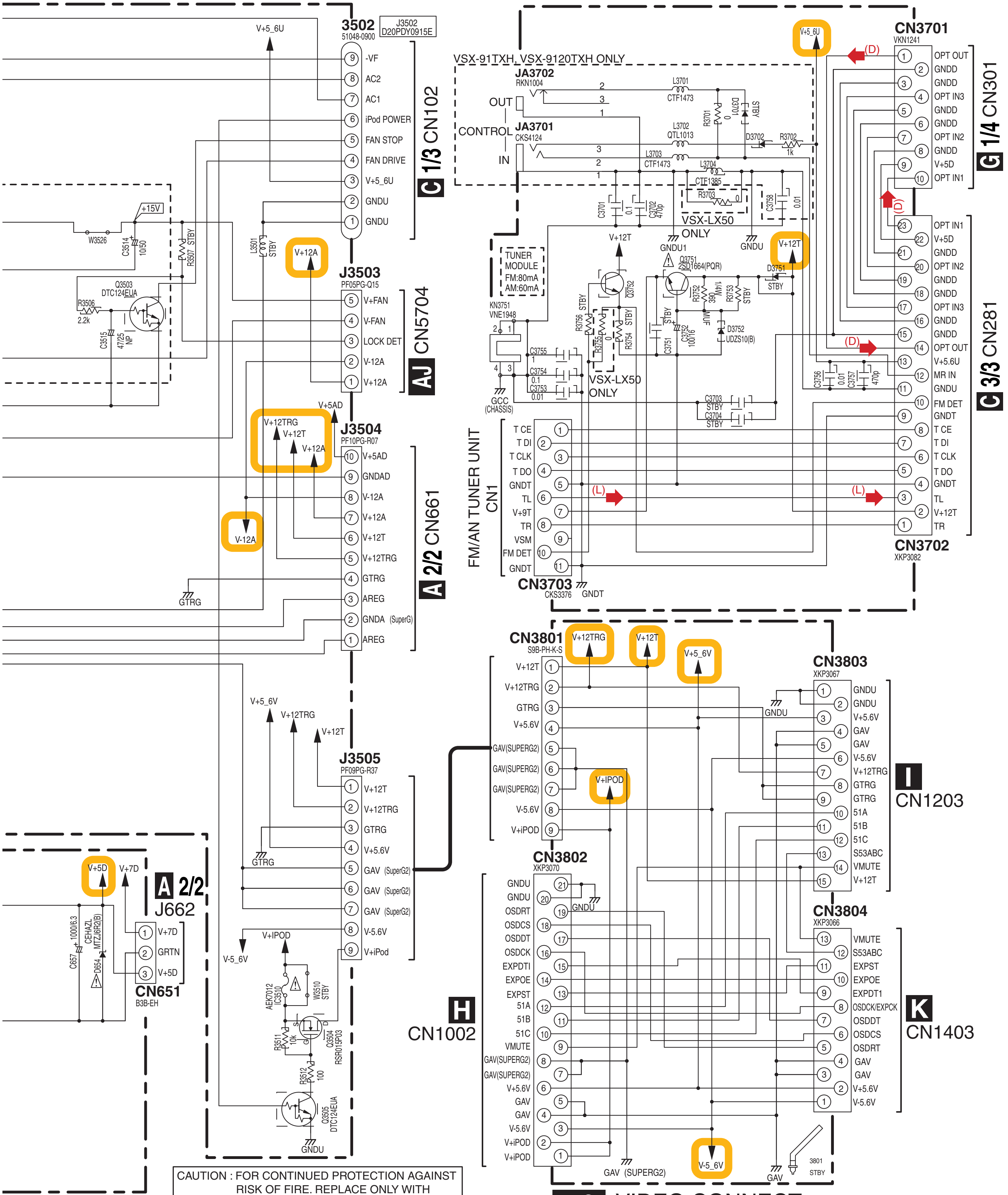
AA DC/DC ASSY (AWX9015)

X Y Z AA

(L) ➡ : Audio Signal Route (L ch)

(D) ➡ : Audio Data Route

AB IR I/O ASSY
(VSX-LX50 : AWX9067)
(VSX-91TXH, VSX-9120TXH : AWX9066)



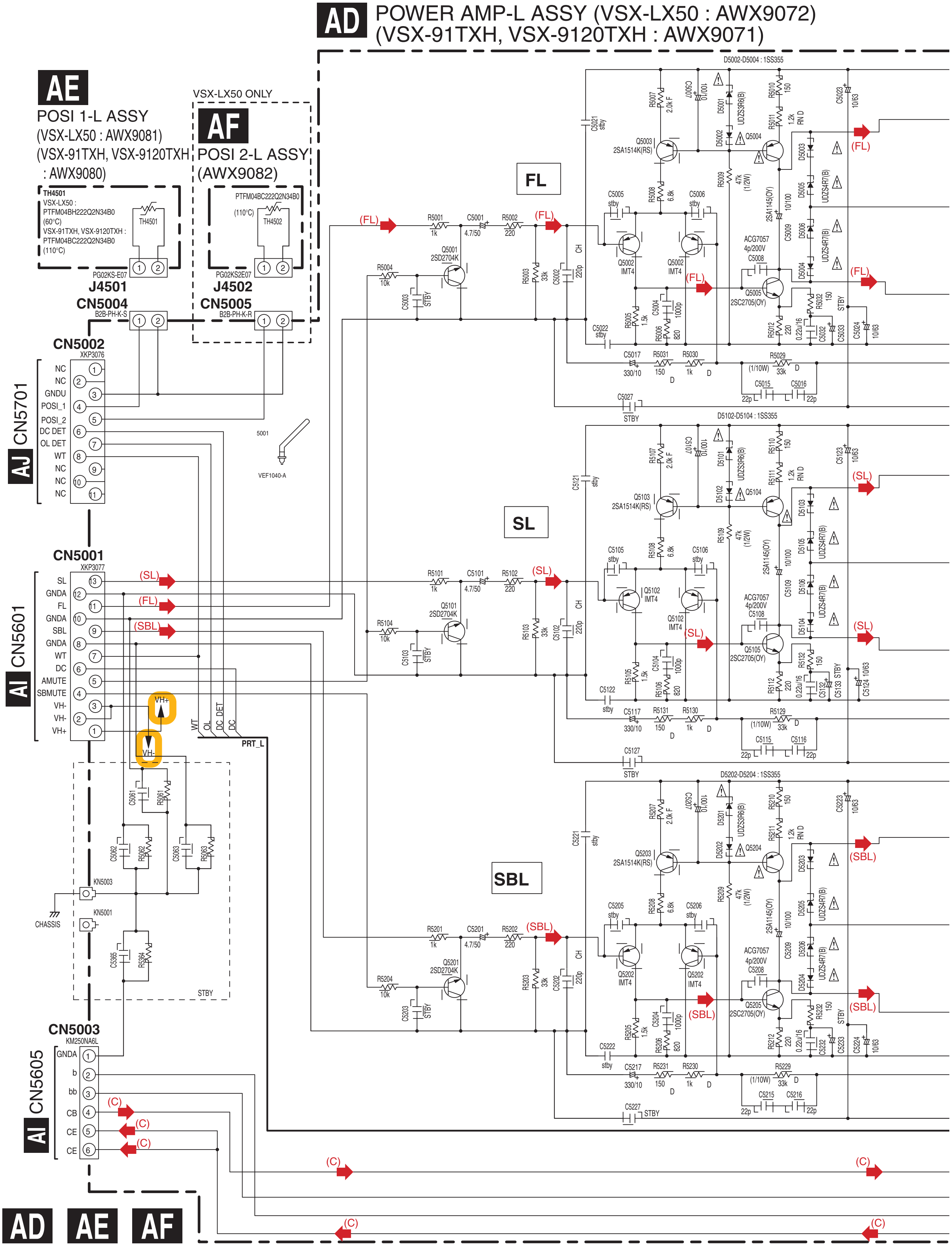
A
B
C
D
E
F
3502
51048-0900
J3502
D20PDY0915E
9 -VF
8 AC2
7 AC1
6 iPod POWER
5 FAN STOP
4 FAN DRIVE
3 V+5_6U
2 GNDU
1 GNDU
C 1/3 CN102
V+5_6U
+15V
W3526
C3514 10/50
R3507 STBY
L3501 STBY
V+12A
Q3503 DTC124EUA
R3506 2.2k
C3515 47/25 NP
J3503
PF05PG-Q15
5 V+FAN
4 V-FAN
3 LOCK DET
2 V-12A
1 V+12A
AJ CN5704
V+5AD
J3504
PF10PG-R07
10 V+5AD
9 GNDAD
8 V-12A
7 V+12A
6 V+12T
5 V+12TRG
4 GTRG
3 AREG
2 GNDA (SuperG)
1 AREG
A 2/2 CN661
V+12TRG
V+12T
V+12A
V-12A
GTRG
V+5_6V
V+12TRG
V+12T
J3505
PF09PG-R37
1 V+12T
2 V+12TRG
3 GTRG
4 V+5.6V
5 GAV (SuperG2)
6 GAV (SuperG2)
7 GAV (SuperG2)
8 V-5.6V
9 V+iPod
GTRG
V+IPOD
V-5_6V
AEK7012 IC3510
W3510 STBY
R3511 10k
Q3504 RSR015P03
R3512 100
Q3505 DTC124EUA
GNDU
V+5D
V+7D
A 2/2 J662
1 V+7D
2 GRTN
3 V+5D
CN651
B3B-EH
C657 1000/6.3
CEHAZL MTZJ6R2(B)
D654
VSX-91TXH, VSX-9120TXH ONLY
JA3702
RKN1004
OUT
CONTROL
IN
JA3701
CKS4124
L3701 CTF1473
L3702 QTL1013
L3703 CTF1473
L3704 CTF1385
R3701 0
D3701 STBY
D3702
R3702 1k
R3703 0
C3701 0.1
C3702 470p
C3758 0.01
VSX-LX50 ONLY
V+5_6U
V+12T
GNDU1
GNDU
V+12T
TUNER MODULE FM:80mA AM:60mA
KN3751 VNE1948
Q3751 2SD1664(PQR)
Q3752
R3756 STBY
R3755 0
R3754 STBY
R3752 390
R3753 STBY
14MM
MUF
D3751 STBY
C3751
C3752 100/16 STBY
D3752 UDZS10(B)
C3755 1
C3754 0.1
C3753 0.01
GCC (CHASSIS)
VSX-LX50 ONLY
C3703 STBY
C3704 STBY
C3756 0.01
C3757 470p
CN3701
VKN1241
1 OPT OUT
2 GNDD
3 GNDD
4 OPT IN3
5 GNDD
6 GNDD
7 OPT IN2
8 GNDD
9 V+5D
10 OPT IN1
G 1/4 CN301
23 OPT IN1
22 V+5D
21 GNDD
20 OPT IN2
19 GNDD
18 GNDD
17 OPT IN3
16 GNDD
15 GNDD
14 OPT OUT
13 V+5.6U
12 MR IN
11 GNDU
10 FM DET
9 GNDT
8 T CE
7 T DI
6 T CLK
5 T DO
4 GNDT
3 TL
2 V+12T
1 TR
C 3/3 CN281
(D)
(L)
CN3702
XKP3082
FM/AN TUNER UNIT CN1
1 T CE
2 T DI
3 T CLK
4 T DO
5 GNDT
6 TL
7 V+9T
8 TR
9 VSM
10 FM DET
11 GNDT
CN3703
CKS3376
GNDT
CN3801
S9B-PH-K-S
V+12TRG
V+12T
V+5_6V
1 V+12T
2 V+12TRG
3 GTRG
4 V+5.6V
5 GAV(SUPERG2)
6 GAV(SUPERG2)
7 GAV(SUPERG2)
8 V-5.6V
9 V+iPOD
V+IPOD
CN3803
XKP3067
1 GNDU
2 GNDU
3 V+5.6V
4 GAV
5 GAV
6 V-5.6V
7 V+12TRG
8 GTRG
9 GTRG
10 51A
11 51B
12 51C
13 S53ABC
14 VMUTE
15 V+12T
GNDU
I CN1203
CN3802
XKP3070
21 GNDU
20 GNDU
19 OSDRT
18 OSDCS
17 OSDDT
16 OSDCK
15 EXPDTI
14 EXPOE
13 EXPST
12 51A
11 51B
10 51C
9 VMUTE
8 GAV(SUPERG2)
7 GAV(SUPERG2)
6 V+5.6V
5 GAV
4 GAV
3 V-5.6V
2 V+iPOD
1 V+iPOD
GNDU
H CN1002
CN3804
XKP3066
13 VMUTE
12 S53ABC
11 EXPST
10 EXPOE
9 EXPDT1
8 OSDCK/EXPCK
7 OSDDT
6 OSDCS
5 OSDRT
4 GAV
3 GAV
2 V+5.6V
1 V-5.6V
K CN1403
V-5_6V
GAV (SUPERG2)
GAV
3801 STBY

CAUTION : FOR CONTINUED PROTECTION AGAINST
RISK OF FIRE. REPLACE ONLY WITH
SAME TYPE NO. 49101.6 MFD, BY
LITTELFUSE INK. FOR IC3510.

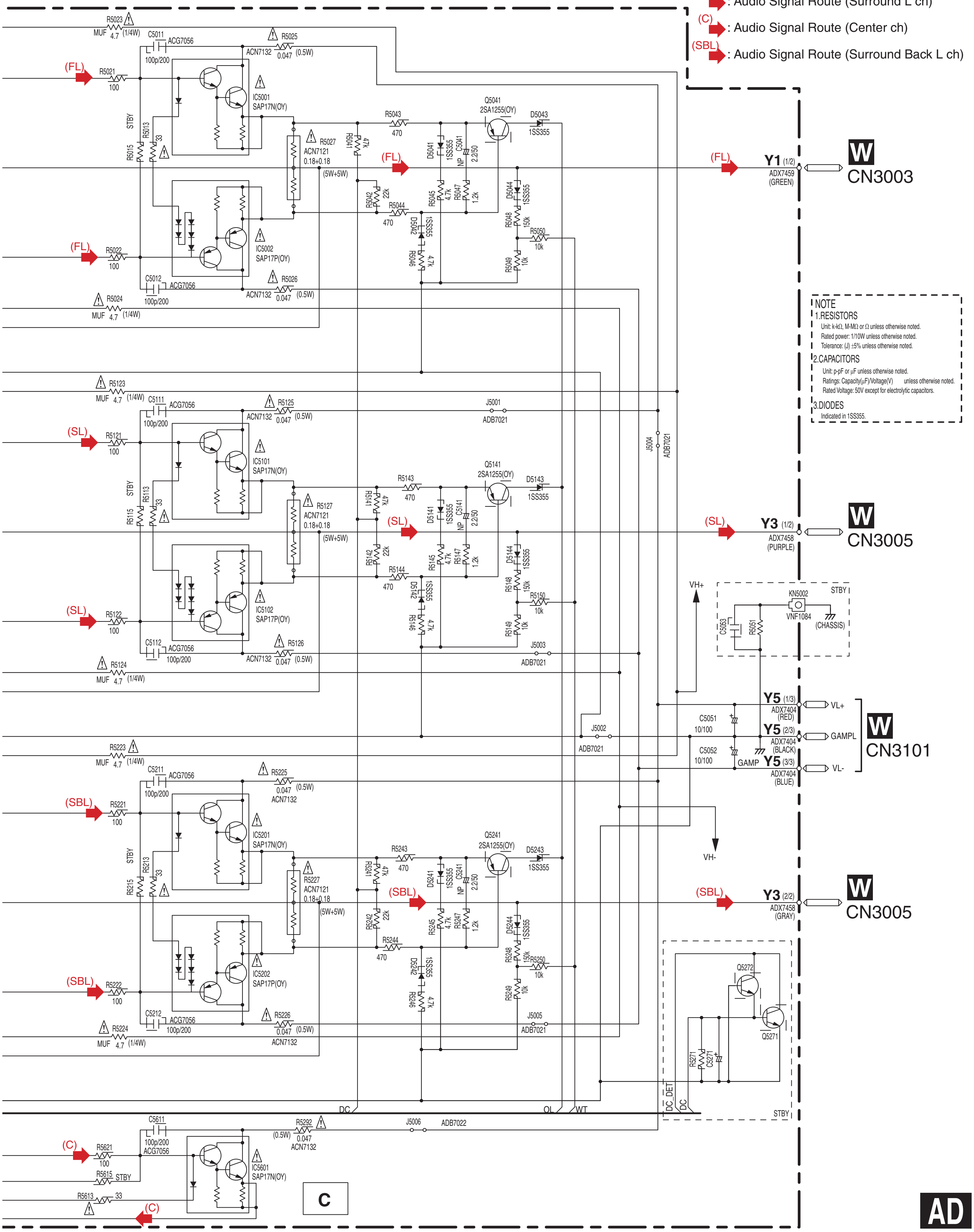
AC VIDEO CONNECT
ASSY (AWX9069)

Z AB AC

10.17 POWER AMP-L, POSI 1-L and POSI 2-L ASSYS


AD POWER AMP-L ASSY (VSX-LX50 : AWX9072)
(VSX-91TXH, VSX-9120TXH : AWX9071)
AE
POSI 1-L ASSY
(VSX-LX50 : AWX9081)
(VSX-91TXH, VSX-9120TXH
: AWX9080)
TH4501
VSX-LX50 :
PTFM04BH222Q2N34B0
(60°C)
VSX-91TXH, VSX-9120TXH :
PTFM04BC222Q2N34B0
(110°C)
VSX-LX50 ONLY
AF
POSI 2-L ASSY
(AWX9082)
PTFM04BC222Q2N34B0
(110°C)
TH4502
PG02KS-E07
J4501
PG02KS2E07
J4502
CN5004
B2B-PH-K-S
CN5005
B2B-PH-K-R
CN5002
XKP3076
NC
NC
GNDU
POSI_1
POSI_2
DC DET
OL DET
WT
NC
NC
NC
AJ CN5701
5001
VEF1040-A
CN5001
XKP3077
SL
GNDA
FL
GNDA
SBL
GNDA
WT
DC
AMUTE
SBMUTE
VH-
VH-
VH+
AI CN5601
(SL)
(FL)
(SBL)
VH+
VH-
WT
OL
DC DET
DC
PRT_L
C5061
R5061
C5062
R5062
C5063
R5063
KN5003
KN5001
CHASSIS
C5365
R5364
STBY
CN5003
KM250NA6L
GNDA
b
bb
CB
CE
CE
AI CN5605
(C)
FL
SL
SBL
D5002-D5004 : 1SS355
D5102-D5104 : 1SS355
D5202-D5204 : 1SS355
R5001 1k
C5001 4.7/50
R5002 220
R5003 33k
C5002 220p
CH
R5004 10k
C5003 STBY
Q5001 2SD2704K
C5021 stby
R5007 2.0k F
C5007 100/10
D5001 UDZS3R6(B)
D5002
Q5003 2SA1514K(RS)
Q5004
R5010 150
R5011 1.2k RN D
R5009 47k (1/2W)
2SA1145(OY)
10/100
C5009
D5003
D5005
D5006
D5004
UDZS4R7(B)
C5023 10/63
C5005 stby
C5006 stby
R5008 6.8k
Q5002 IMT4
ACG7057 4p/200V
C5008
Q5005 2SC2705(OY)
R5005 1.5k
C5004 1000p
R5006 820
R5012 220
0.22u/16
C5032
C5033
R5032 150
STBY
C5024 10/63
C5022 stby
C5017 330/10
R5031 150
R5030 1k
D
R5029 (1/10W) 33k
C5015 22p
C5016 22p
C5027 STBY
R5101 1k
C5101 4.7/50
R5102 220
R5103 33k
C5102 220p
R5104 10k
C5103 STBY
Q5101 2SD2704K
C5121 stby
R5107 2.0k F
C5107 100/10
D5101 UDZS3R6(B)
D5102
Q5103 2SA1514K(RS)
Q5104
R5110 150
R5111 1.2k RN D
R5109 47k (1/2W)
C5109
D5103
D5105
D5106
D5104
C5123 10/63
C5105 stby
C5106 stby
R5108 6.8k
Q5102 IMT4
C5108
Q5105 2SC2705(OY)
R5105 1.5k
C5104 1000p
R5106 820
R5112 220
C5132
C5133 STBY
R5132 150
C5124 10/63
C5122 stby
C5117 330/10
R5131 150
R5130 1k
R5129 (1/10W) 33k
C5115 22p
C5116 22p
C5127 STBY
R5201 1k
C5201 4.7/50
R5202 220
R5203 33k
C5202 220p
R5204 10k
C5203 STBY
Q5201 2SD2704K
C5221 stby
R5207 2.0k F
C5207 100/10
D5201 UDZS3R6(B)
D5202
Q5203 2SA1514K(RS)
Q5204
R5210 150
R5211 1.2k RN D
R5209 47k (1/2W)
C5209
D5203
D5205
D5206
D5204
C5223 10/63
C5205 stby
C5206 stby
R5208 6.8k
Q5202 IMT4
C5208
Q5205 2SC2705(OY)
R5205 1.5k
C5204 1000p
R5206 820
R5212 220
C5232
C5233
R5232 150
C5224 10/63
C5222 stby
C5217 330/10
R5231 150
R5230 1k
R5229 (1/10W) 33k
C5215 22p
C5216 22p
C5227 STBY
AD AE AF

(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)

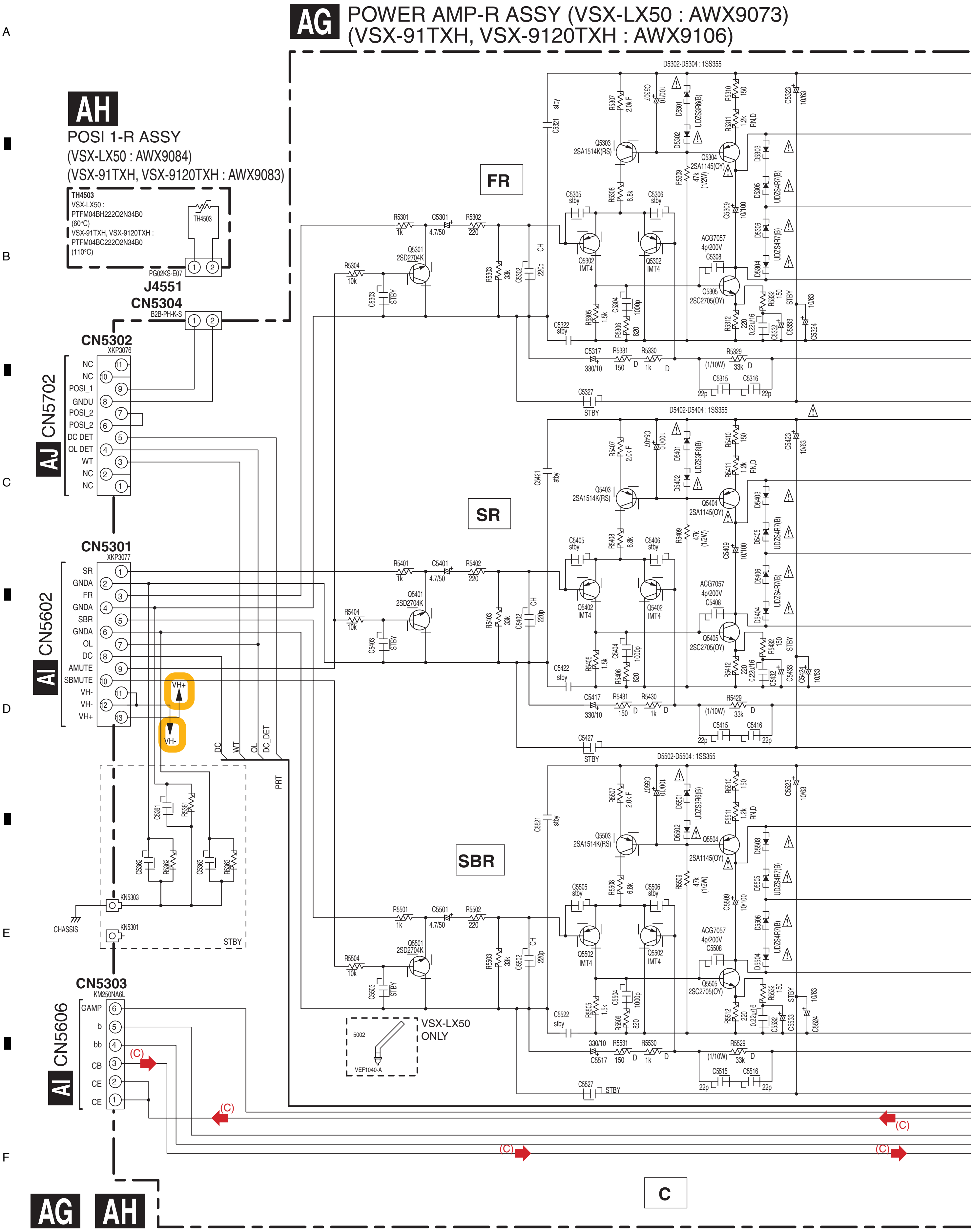


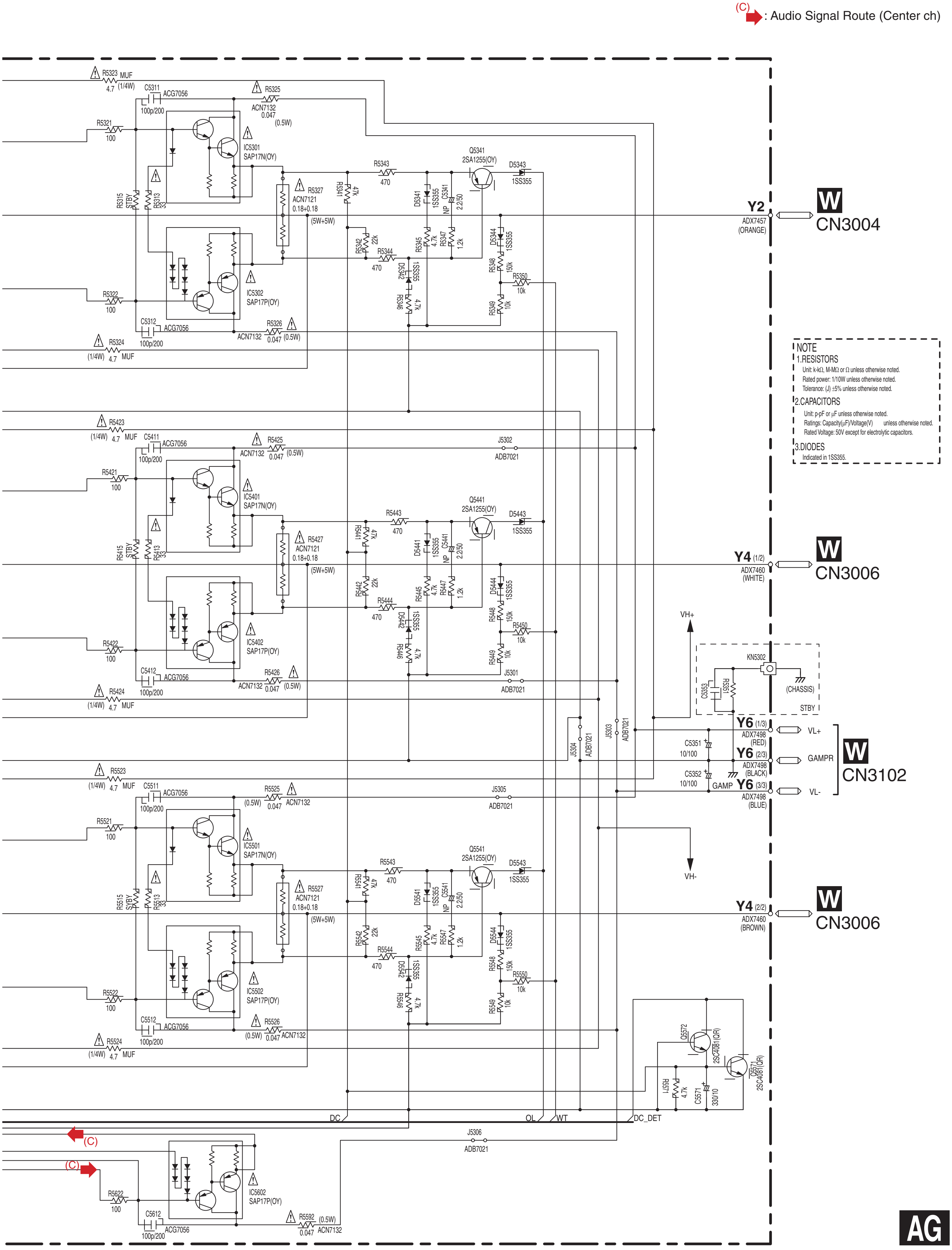
R5023 MUF 4.7 (1/4W)
C5011 100p/200 ACG7056
R5025 0.047 (0.5W) ACN7132
(FL)
R5021 100
IC5001 SAP17N(OY)
STBY
R5015
R5013 33
R5027 ACN7121 0.18+0.18 (5W+5W)
R5041 47k
R5043 470
D5041 1SS355
C5041 NP 2.2/50
Q5041 2SA1255(OY)
D5043 1SS355
Y1 (1/2) ADX7459 (GREEN)
W CN3003
R5042 22k
R5044 470
R5045 4.7k
R5047 1.2k
D5044 1SS355
D5042 1SS355
R5048 150k
R5050 10k
R5049 10k
R5046 4.7k
IC5002 SAP17P(OY)
R5022 100
C5012 ACG7056 100p/200
R5026 ACN7132 0.047 (0.5W)
R5024 MUF 4.7 (1/4W)
R5123 MUF 4.7 (1/4W)
C5111 100p/200 ACG7056
R5125 ACN7132 0.047 (0.5W)
J5001 ADB7021
(SL)
R5121 100
IC5101 SAP17N(OY)
J5004 ADB7021
R5115 R5113 33
R5127 ACN7121 0.18+0.18 (5W+5W)
R5141 47k
R5143 470
D5141 1SS355
C5141 NP 2.2/50
Q5141 2SA1255(OY)
D5143 1SS355
Y3 (1/2) ADX7458 (PURPLE)
W CN3005
R5142 22k
R5144 470
R5145 4.7k
R5147 1.2k
D5144 1SS355
D5142 1SS355
R5148 150k
R5150 10k
R5149 10k
R5146 4.7k
VH+
KN5002 VNF1084 (CHASSIS)
C5053 R5051
IC5102 SAP17P(OY)
R5122 100
C5112 100p/200 ACG7056
R5126 ACN7132 0.047 (0.5W)
J5003 ADB7021
R5124 MUF 4.7 (1/4W)
Y5 (1/3) ADX7404 (RED) VL+
C5051 10/100
J5002 ADB7021
Y5 (2/3) ADX7404 (BLACK) GAMPL
W CN3101
C5052 10/100
GAMP
Y5 (3/3) ADX7404 (BLUE) VL-
R5223 MUF 4.7 (1/4W)
C5211 100p/200 ACG7056
R5225 0.047 (0.5W) ACN7132
(SBL)
R5221 100
IC5201 SAP17N(OY)
R5215 R5213 33
VH-
R5227 ACN7121 0.18+0.18 (5W+5W)
R5241 47k
R5243 470
D5241 1SS355
C5241 NP 2.2/50
Q5241 2SA1255(OY)
D5243 1SS355
Y3 (2/2) ADX7458 (GRAY)
W CN3005
R5242 22k
R5244 470
R5245 4.7k
R5247 1.2k
D5244 1SS355
D5242 1SS355
R5248 150k
R5250 10k
R5249 10k
R5246 4.7k
Q5272
Q5271
R5271 C5271
IC5202 SAP17P(OY)
R5222 100
C5212 100p/200 ACG7056
R5226 0.047 (0.5W) ACN7132
J5005 ADB7021
R5224 MUF 4.7 (1/4W)
DC
OL
WT
DC_DET
DC
STBY
C5611 100p/200 ACG7056
R5292 (0.5W) 0.047 ACN7132
J5006 ADB7022
(C)
R5621 100
R5615 STBY
R5613 33
IC5601 SAP17N(OY)
C

NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
3.DIODES
Indicated in 1SS355.

AD

10.18 POWER AMP-R and POSI 1-R ASSYS


AG POWER AMP-R ASSY (VSX-LX50 : AWX9073)
(VSX-91TXH, VSX-9120TXH : AWX9106)
AH POSI 1-R ASSY
(VSX-LX50 : AWX9084)
(VSX-91TXH, VSX-9120TXH : AWX9083)
TH4503
VSX-LX50 :
PTFM04BH222Q2N34B0
(60°C)
VSX-91TXH, VSX-9120TXH :
PTFM04BC222Q2N34B0
(110°C)
PG02KS-E07
J4551
CN5304
B2B-PH-K-S
CN5302
XKP3076
AJ CN5702
NC
NC
POSI_1
GNDU
POSI_2
POSI_2
DC DET
OL DET
WT
NC
NC
CN5301
XKP3077
AI CN5602
SR
GNDA
FR
GNDA
SBR
GNDA
OL
DC
AMUTE
SBMUTE
VH-
VH-
VH+
VH+
VH-
DC
WT
OL
DC_DET
PRT
C5361
R5361
C5362
R5362
C5363
R5363
KN5303
KN5301
CHASSIS
STBY
CN5303
KM250NA6L
AI CN5606
GAMP
b
bb
CB
CE
CE
(C)
FR
SR
SBR
D5302-D5304 : 1SS355
D5402-D5404 : 1SS355
D5502-D5504 : 1SS355
Q5303 2SA1514K(RS)
Q5304 2SA1145(OY)
Q5302 IMT4
Q5301 2SD2704K
Q5305 2SC2705(OY)
ACG7057 4p/200V
UDZS3R6(B)
UDZS4R7(B)
R5301 1k
C5301 4.7/50
R5302 220
R5303 33k
C5302 CH 220p
R5304 10k
C5303 STBY
R5305 1.5k
R5306 820
C5304 1000p
R5307 2.0k F
R5308 6.8k
R5309 47k (1/2W)
R5310 150
R5311 1.2k RN.D
R5312 220
R5329 (1/10W) 33k
R5330 1k
R5331 150
R5332 150
C5307 100/10
C5309 10/100
C5317 330/10
C5315 22p
C5316 22p
C5321 stby
C5322 stby
C5323 10/63
C5324 10/63
C5327 STBY
C5332 0.22u/16
C5333
VSX-LX50 ONLY
5002
VEF1040-A
C
AG AH


(C) : Audio Signal Route (Center ch)
R5323 MUF 4.7 (1/4W)
C5311 ACG7056 100p/200
R5325 ACN7132 0.047 (0.5W)
R5321 100
IC5301 SAP17N(OY)
R5315 STBY
R5313 33
R5327 ACN7121 0.18+0.18 (5W+5W)
R5341 47k
R5343 470
Q5341 2SA1255(OY)
D5343 1SS355
D5341 1SS355
C5341 NP 2.2/50
R5342 22k
R5344 470
R5345 4.7k
R5347 1.2k
D5344 1SS355
R5348 150k
D5342 1SS355
R5346 4.7k
R5350 10k
R5349 10k
IC5302 SAP17P(OY)
R5322 100
C5312 ACG7056 100p/200
R5326 ACN7132 0.047 (0.5W)
R5324 (1/4W) 4.7 MUF
Y2 ADX7457 (ORANGE)
W CN3004
R5423 (1/4W) 4.7 MUF
C5411 ACG7056 100p/200
R5425 ACN7132 0.047 (0.5W)
J5302 ADB7021
R5421 100
IC5401 SAP17N(OY)
R5415 STBY
R5413 33
R5427 ACN7121 0.18+0.18 (5W+5W)
R5441 47k
R5443 470
Q5441 2SA1255(OY)
D5443 1SS355
D5441 1SS355
C5441 NP 2.2/50
R5442 22k
R5444 470
R5445 4.7k
R5447 1.2k
D5444 1SS355
R5448 150k
D5442 1SS355
R5446 4.7k
R5450 10k
R5449 10k
IC5402 SAP17P(OY)
R5422 100
C5412 ACG7056 100p/200
R5426 ACN7132 0.047 (0.5W)
J5301 ADB7021
R5424 (1/4W) 4.7 MUF
Y4 (1/2) ADX7460 (WHITE)
W CN3006
VH+
KN5302
C5353
R5351
(CHASSIS)
STBY
J5304 ADB7021
J5303 ADB7021
C5351 10/100
C5352 10/100
GAMP
Y6 (1/3) ADX7498 (RED)
Y6 (2/3) ADX7498 (BLACK)
Y6 (3/3) ADX7498 (BLUE)
VL+
GAMPR
VL-
W CN3102
R5523 (1/4W) 4.7 MUF
C5511 ACG7056 100p/200
R5525 (0.5W) 0.047 ACN7132
J5305 ADB7021
R5521 100
IC5501 SAP17N(OY)
R5515 STBY
R5513 33
R5527 ACN7121 0.18+0.18 (5W+5W)
R5541 47k
R5543 470
Q5541 2SA1255(OY)
D5543 1SS355
D5541 1SS355
C5541 NP 2.2/50
R5542 22k
R5544 470
R5545 4.7k
R5547 1.2k
D5544 1SS355
R5548 150k
D5542 1SS355
R5546 4.7k
R5550 10k
R5549 10k
VH-
Y4 (2/2) ADX7460 (BROWN)
W CN3006
IC5502 SAP17P(OY)
R5522 100
C5512 ACG7056 100p/200
R5526 (0.5W) 0.047 ACN7132
R5524 (1/4W) 4.7 MUF
Q5572 2SC4081(QR)
Q5571 2SC4081(QR)
R5571 4.7k
C5571 330/10
DC
OL
WT
DC_DET
(C)
(C)
J5306 ADB7021
R5622 100
IC5602 SAP17P(OY)
C5612 ACG7056 100p/200
R5592 (0.5W) 0.047 ACN7132

NOTE

1.RESISTORS

Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

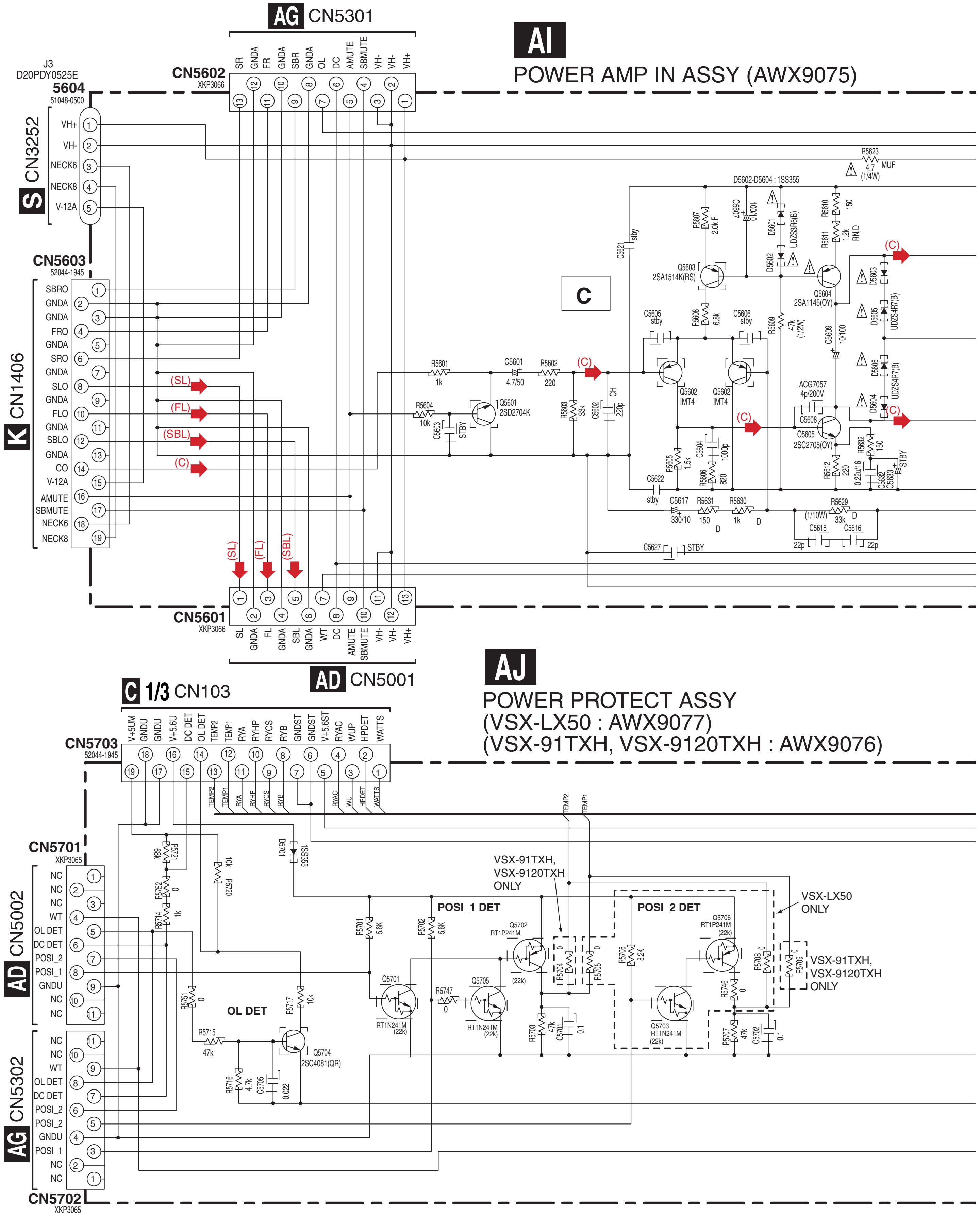
2.CAPACITORS

Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

3.DIODES

Indicated in 1SS355.

10.19 POWER AMP IN and POWER PROTECT ASSYS


AG CN5301
AI
POWER AMP IN ASSY (AWX9075)
J3
D20PDY0525E
5604
51048-0500
S CN3252
VH+
VH-
NECK6
NECK8
V-12A
CN5602
XKP3066
SR
GNDA
FR
GNDA
SBR
GNDA
OL
DC
AMUTE
SBMUTE
VH-
VH-
VH+
CN5603
52044-1945
K CN1406
SBRO
GNDA
GNDA
FRO
GNDA
SRO
GNDA
SLO
GNDA
FLO
GNDA
SBLO
GNDA
CO
V-12A
AMUTE
SBMUTE
NECK6
NECK8
(SL)
(FL)
(SBL)
(C)
C
R5623
4.7
MUF
(1/4W)
D5602-D5604 : 1SS355
R5607
2.0k F
C5607
100/10
D5601
UDZS3R6(B)
R5610
150
R5611
1.2k
RN,D
C5621
stby
Q5603
2SA1514K(RS)
D5602
Q5604
2SA1145(OY)
D5603
D5605
UDZS4R7(B)
C5605
stby
R5608
6.8k
C5606
stby
R5609
47k
(1/2W)
C5609
10/100
R5601
1k
C5601
4.7/50
R5602
220
R5604
10k
C5603
STBY
Q5601
2SD2704K
R5603
33k
C5602
CH
220p
Q5602
IMT4
ACG7057
4p/200V
C5608
Q5605
2SC2705(OY)
D5606
UDZS4R7(B)
D5604
R5605
1.5k
C5604
1000p
R5606
820
R5612
220
R5632
150
0.22u/16
C5632
C5633
STBY
C5622
stby
C5617
330/10
R5631
150
R5630
1k
D
R5629
(1/10W)
33k
C5615
C5616
22p
C5627
STBY
CN5601
XKP3066
SL
GNDA
FL
GNDA
SBL
GNDA
WT
DC
AMUTE
SBMUTE
VH-
VH-
VH+
AD CN5001
C 1/3 CN103
AJ
POWER PROTECT ASSY
(VSX-LX50 : AWX9077)
(VSX-91TXH, VSX-9120TXH : AWX9076)
CN5703
52044-1945
V+5UM
GNDU
GNDU
V+5.6U
DC DET
OL DET
TEMP2
TEMP1
RYA
RYHP
RYCS
RYB
GNDST
GNDST
V+5.6ST
RYAC
WUP
HPDET
WATTS
CN5701
XKP3065
AD CN5002
NC
NC
NC
WT
OL DET
DC DET
POSI_2
POSI_1
GNDU
NC
NC
R5721
68k
R5720
10k
R5752
0
R5714
1k
D5701
1SS355
VSX-91TXH,
VSX-9120TXH
ONLY
POSI_1 DET
POSI_2 DET
VSX-LX50
ONLY
R5701
5.6K
R5702
5.6K
Q5702
RT1P241M
(22k)
R5704
R5705
R5706
8.2K
Q5706
RT1P241M
(22k)
R5708
R5709
R5751
0
OL DET
R5717
10k
Q5701
RT1N241M
(22k)
R5747
0
Q5705
RT1N241M
(22k)
R5703
47k
C5701
0.1
Q5703
RT1N241M
(22k)
R5746
0
R5707
47k
C5702
0.1
R5715
47k
Q5704
2SC4081(QR)
R5716
4.7k
C5705
0.022
AG CN5302
NC
NC
WT
OL DET
DC DET
POSI_2
POSI_2
GNDU
POSI_1
NC
NC
CN5702
XKP3065
A
B
C
D
E
F

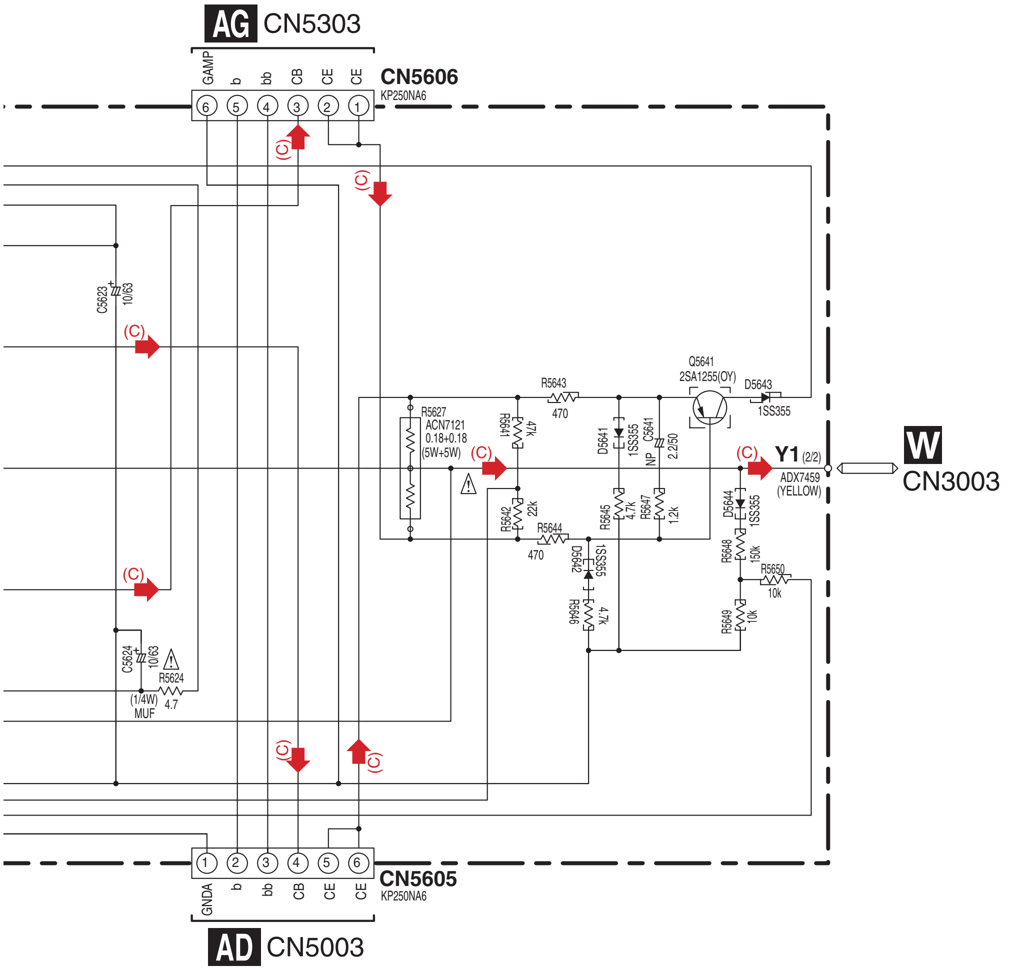
AI AJ

(FL) ➡ : Audio Signal Route (Front L ch)

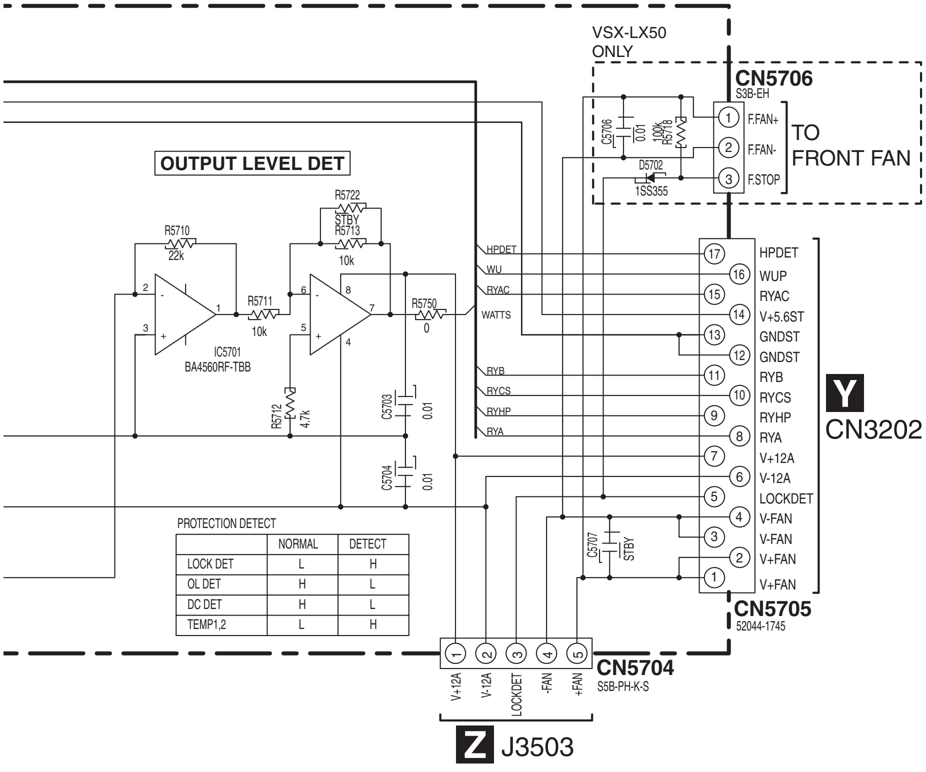
(SL) ➡ : Audio Signal Route (Surround L ch)

(C) ➡ : Audio Signal Route (Center ch)

(SBL) ➡ : Audio Signal Route (Surround Back L ch)


AG CN5303
CN5606
KP250NA6
GAMP
b
bb
CB
CE
CE
6 5 4 3 2 1
(C)
C5623
10/63
R5627
ACN7121
0.18+0.18
(5W+5W)
R5641
47k
R5643
470
Q5641
2SA1255(OY)
D5643
1SS355
D5641
1SS355
C5641
NP
2.2/50
Y1 (2/2)
ADX7459
(YELLOW)
W
CN3003
R5642
22k
R5644
470
D5642
1SS355
R5646
4.7k
R5645
4.7k
R5647
1.2k
D5644
1SS355
R5648
150k
R5650
10k
R5649
10k
C5624
10/63
R5624
(1/4W)
MUF
4.7
1 2 3 4 5 6
CN5605
KP250NA6
GNDA
b
bb
CB
CE
CE
AD CN5003

NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.


VSX-LX50
ONLY
CN5706
S3B-EH
F.FAN+
F.FAN-
F.STOP
TO
FRONT FAN
C5706
0.01
100k
R5718
D5702
1SS355
OUTPUT LEVEL DET
R5722
STBY
R5713
10k
R5710
22k
R5711
10k
IC5701
BA4560RF-TBB
R5712
4.7k
R5750
0
C5703
0.01
C5704
0.01
HPDET
WU
RYAC
WATTS
RYB
RYCS
RYHP
RYA
17 HPDET
16 WUP
15 RYAC
14 V+5.6ST
13 GNDST
12 GNDST
11 RYB
10 RYCS
9 RYHP
8 RYA
7 V+12A
6 V-12A
5 LOCKDET
4 V-FAN
3 V-FAN
2 V+FAN
1 V+FAN
Y
CN3202
CN5705
52044-1745
C5707
STBY
1 2 3 4 5
CN5704
S5B-PH-K-S
V+12A
V-12A
LOCKDET
-FAN
+FAN
Z J3503

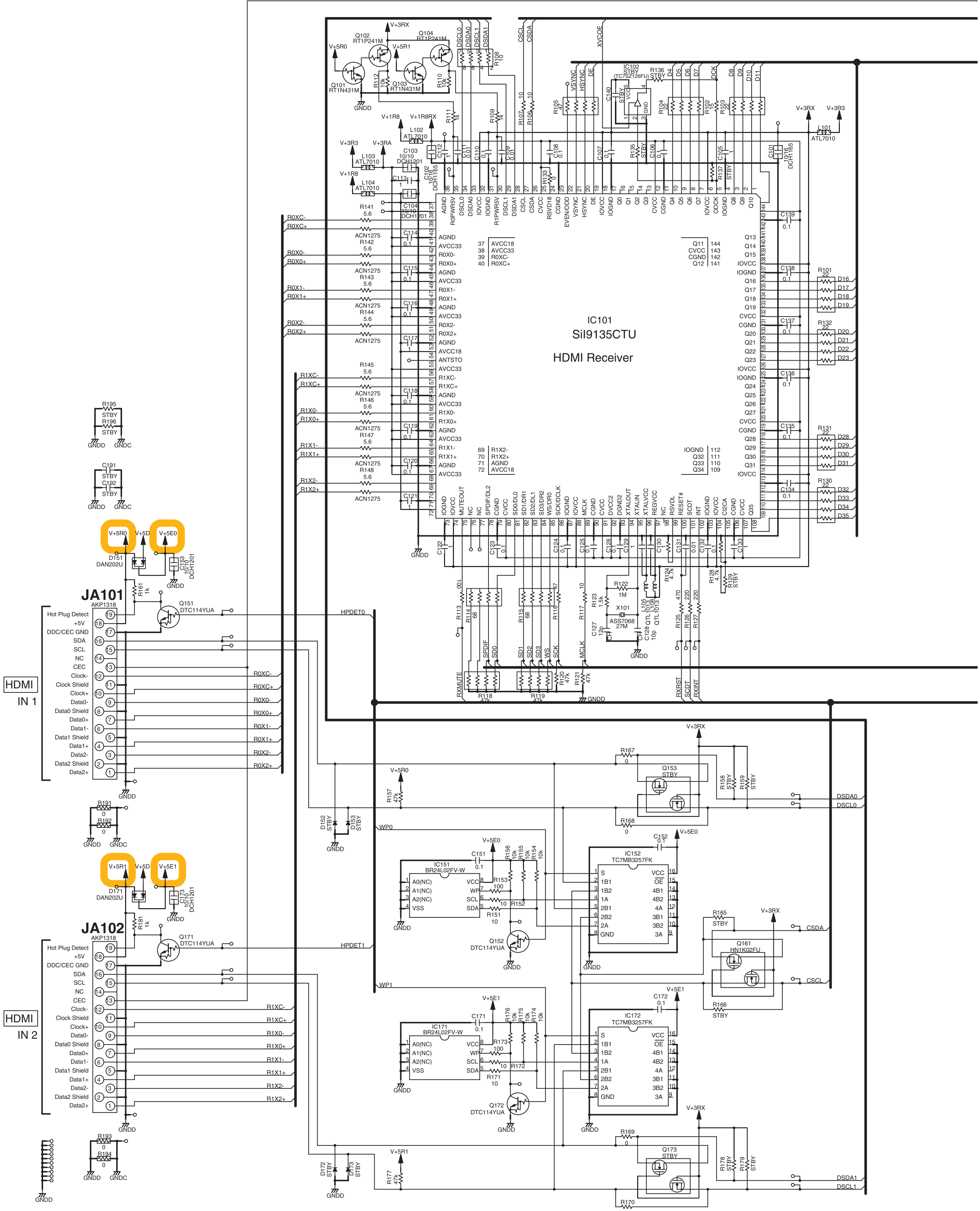
PROTECTION DETECT

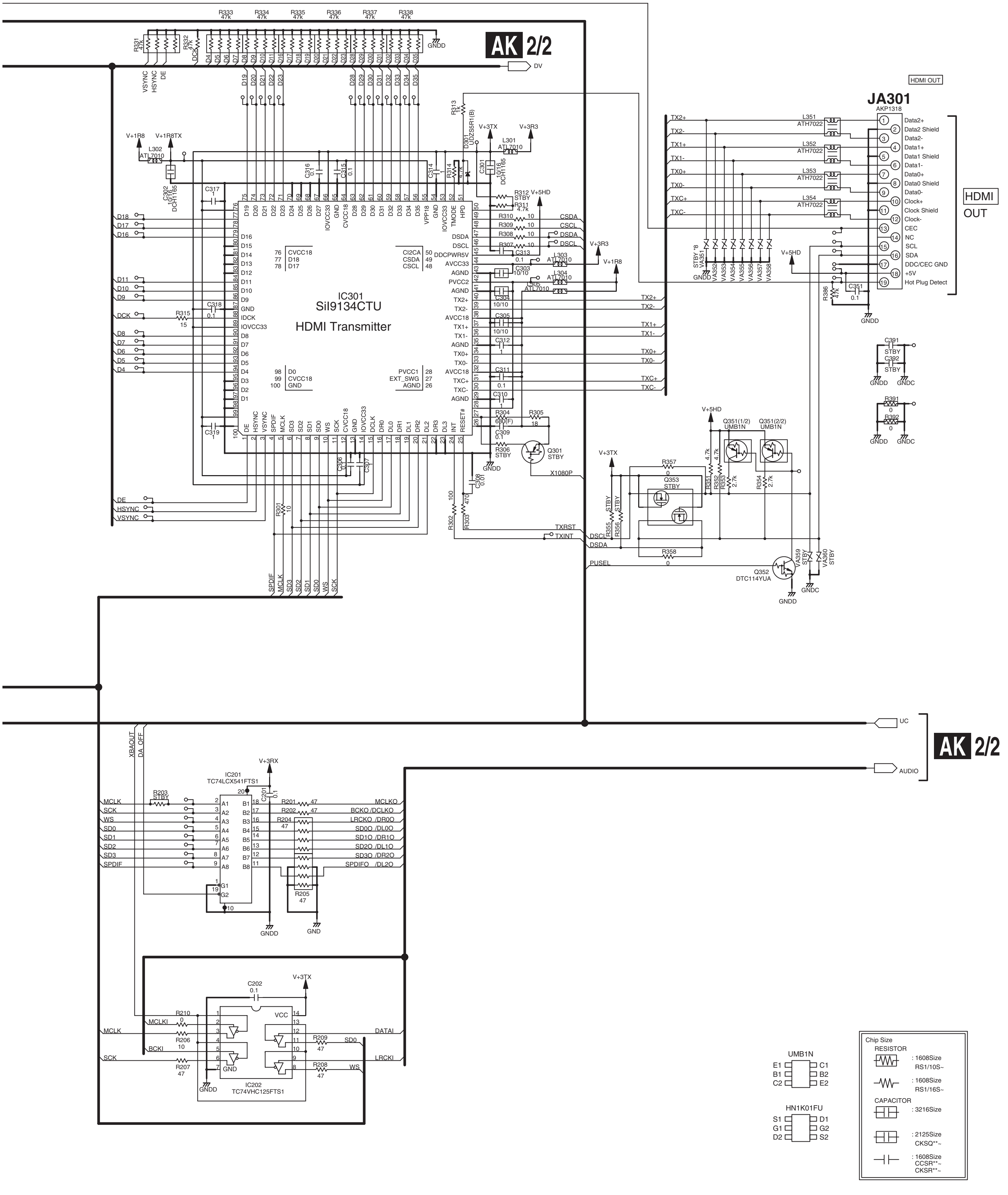
	NORMAL	DETECT
LOCK DET	L	H
OL DET	H	L
DC DET	H	L
TEMP1,2	L	H

AI AJ

10.20 HDMI & DVC ASSY (1/2)

AK 1/2 HDMI & DVC ASSY (AWQ7040)

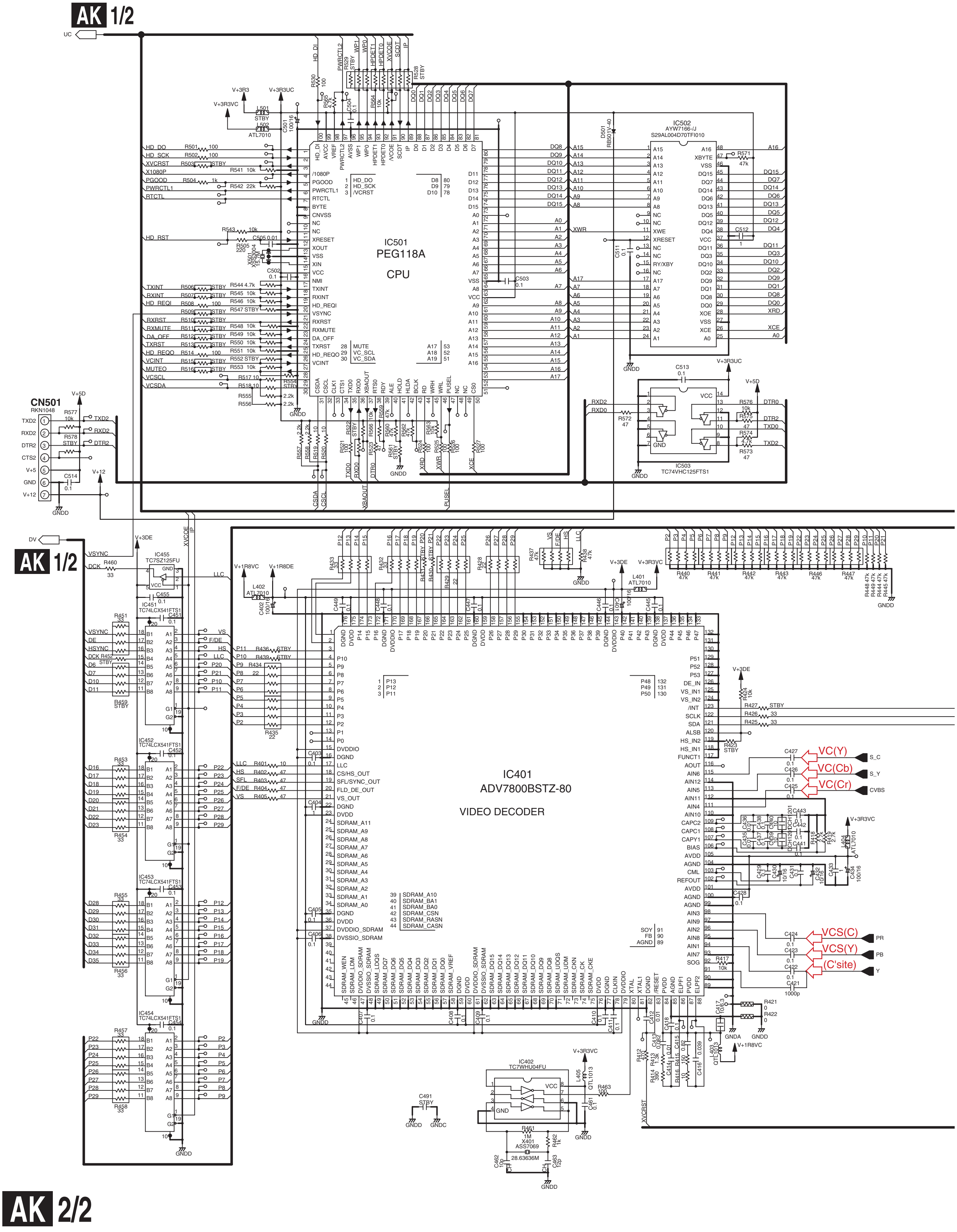

IC101
SiI9135CTU
HDMI Receiver
JA101
AKP1318
HDMI
IN 1
JA102
AKP1318
HDMI
IN 2
Hot Plug Detect
+5V
DDC/CEC GND
SDA
SCL
NC
CEC
Clock-
Clock Shield
Clock+
Data0-
Data0 Shield
Data0+
Data1-
Data1 Shield
Data1+
Data2-
Data2 Shield
Data2+
V+5R0
V+5D
V+5E0
V+5R1
V+5E1
D151
DAN202U
D171
DAN202U
Q151
DTC114YUA
Q171
DTC114YUA
HPDET0
HPDET1
WP0
WP1
IC151
BR24L02FV-W
IC171
BR24L02FV-W
A0(NC)
A1(NC)
A2(NC)
VSS
VCC
WP
SCL
SDA
Q152
DTC114YUA
Q172
DTC114YUA
IC152
TC7MB3257FK
IC172
TC7MB3257FK
Q153
STBY
Q173
STBY
Q161
HN1K02FU
DSDA0
DSCL0
DSDA1
DSCL1
CSDA
CSCL
V+3RX
V+3R3
V+1R8
V+1R8RX
V+3RA
Q101
RT1N431M
Q102
RT1P241M
Q103
RT1N431M
Q104
RT1P241M
IC102
(TC7SZ126FU)
X101
ASS7068
27M
L101
ATL7010
L102
ATL7010
L103
ATL7010
L104
ATL7010
R0XC-
R0XC+
R0X0-
R0X0+
R0X1-
R0X1+
R0X2-
R0X2+
R1XC-
R1XC+
R1X0-
R1X0+
R1X1-
R1X1+
R1X2-
R1X2+
RXMUTE
SPDIF
SD0
SD1
SD2
SD3
WS
SCK
MCLK
RXRST
SCDT
RXINT
XVCOE
GNDD
GNDC



AK 2/2
GNDD
DV
HDMI OUT
JA301
AKP1318
R331 47K
R332 47K
R333 47K
R334 47K
R335 47K
R336 47K
R337 47K
R338 47K
VSYNC
HSYNC
DE
DCK
R313 1K
D301 UDZS5R1(B)
V+3TX
V+3R3
V+1R8
V+1R8TX
L302 ATL7010
L301 ATL7010
C302 10/16 DCH1165
C301 10/16 DCH1165
C316 0.1
C315 0.1
C314 1
R314 4.7K
C317 1
R312 STBY
V+5HD
R311 4.7K
R310 10
R309 10
R308 10
R307 10
CSDA
CSCL
DSDA
DSCL
C313 0.1
L303 ATL7010
C303 10/10
L304 ATL7010
L305 ATL7010
V+1R8
C304 10/10
C305 10/10
C312 1
C311 1
C310 0.1
R304 680(F)
R305 18
C309 0.1
R306 STBY
Q301 STBY
GNDD
X1080P
C308 0.01
R302 100
R303 470
TXRST
TXINT
IC301
Sil9134CTU
HDMI Transmitter
CVCC18
D18
D17
CI2CA
CSDA
CSCL
DDCPWR5V
AVCC33
AGND
PVCC2
TX2+
TX2-
AVCC18
TX1+
TX1-
TX0+
TX0-
TXC+
TXC-
D0
CVCC18
GND
PVCC1
EXT_SWG
AGND
IDCK
IOVCC33
HPD
TMODE
RESET#
INT
C318 0.1
C319 1
R315 15
C306
C307
R301 10
D18
D17
D16
D11
D10
D9
DCK
D8
D7
D6
D5
D4
DE
HSYNC
VSYNC
SPDIF
MCLK
SD3
SD2
SD1
SD0
WS
SCK
L351 ATH7022
L352 ATH7022
L353 ATH7022
L354 ATH7022
Data2+
Data2 Shield
Data2-
Data1+
Data1 Shield
Data1-
Data0+
Data0 Shield
Data0-
Clock+
Clock Shield
Clock-
CEC
NC
SCL
SDA
DDC/CEC GND
+5V
Hot Plug Detect
HDMI
OUT
STBY *8
VA351
VA352
VA353
VA354
VA355
VA356
VA357
VA358
GNDD
V+5HD
R386 47K
C351 0.1
C391 STBY
C392 STBY
GNDD
GNDC
R391 0
R392 0
V+5HD
Q351(1/2) UMB1N
Q351(2/2) UMB1N
V+3TX
R357 0
Q353 STBY
R351 4.7k
R352 4.7k
R353 2.7k
R354 2.7k
R355 STBY
R356 STBY
R358 0
DSCL
DSDA
PUSEL
Q352 DTC114YUA
VA359 STBY
VA360 STBY
GNDC
GNDD
UC
AUDIO
AK 2/2
XBAOUT
DA_OFF
V+3RX
IC201
TC74LCX541FTS1
C201 0.1
R203 STBY
R201 47
R202 47
R204 47
R205 47
MCLK
SCK
WS
SD0
SD1
SD2
SD3
SPDIF
MCLKO
BCKO /DCLKO
LRCKO /DR0O
SD0O /DL0O
SD1O /DR1O
SD2O /DL1O
SD3O /DR2O
SPDIFO /DL2O
GNDD
GND
V+3TX
C202 0.1
R210 0
MCLKI
R206 10
BCKI
R207 47
VCC
GND
R209 47
R208 47
DATAI
SD0
LRCKI
WS
IC202
TC74VHC125FTS1
GNDD
UMB1N
E1 B1 C2
C1 B2 E2
HN1K01FU
S1 G1 D2
D1 G2 S2
Chip Size
RESISTOR
: 1608Size RS1/10S~
: 1608Size RS1/16S~
CAPACITOR
: 3216Size
: 2125Size CKSQ**~
: 1608Size CCSR**~ CKSR**~
A
B
C
D
E
F

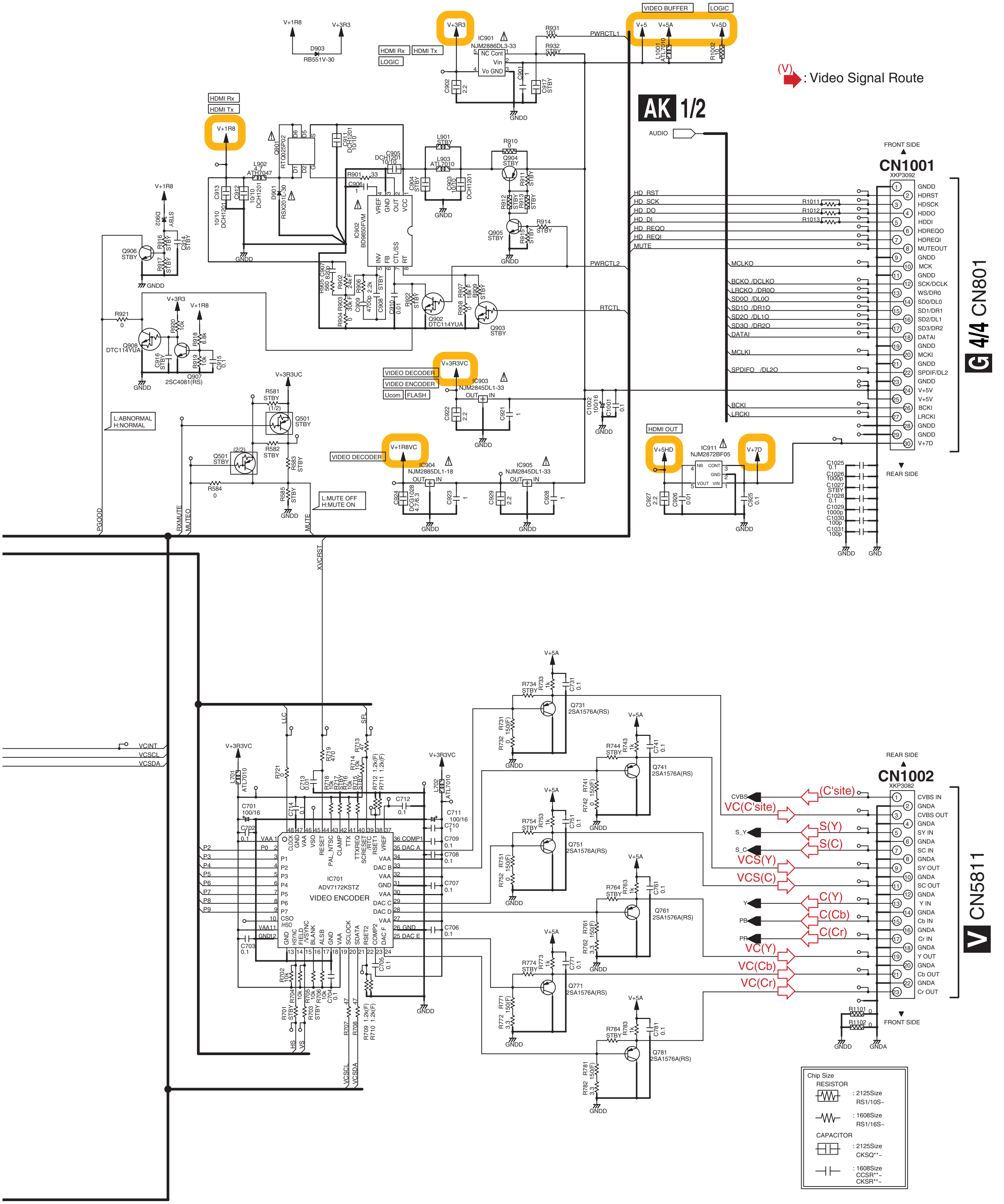
AK 1/2

10.21 HDMI & DVC ASSY (2/2)



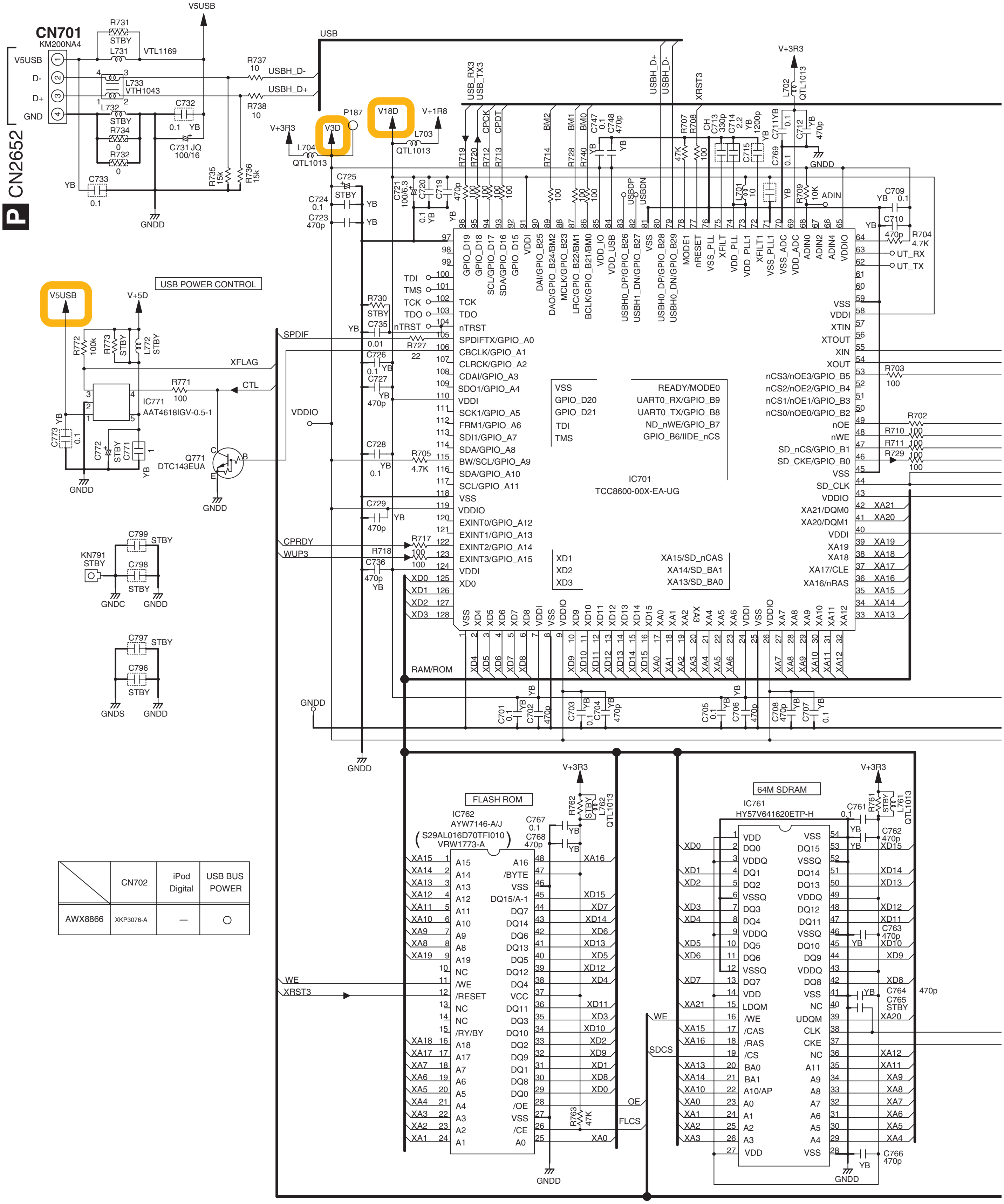
AK 1/2
UC
IC501
PEG118A
CPU
IC502
AYW7166-/J
S29AL004D70TFI010
IC503
TC74VHC125FTS1
CN501
RKN1048
TXD2
RXD2
DTR2
CTS2
V+5
GND
V+12
V+5D
V+3R3
V+3R3UC
V+3R3VC
DV
AK 1/2
VSYNC
DCK
IC455
TC7SZ125FU
IC451
TC74LCX541FTS1
IC452
TC74LCX541FTS1
IC453
TC74LCX541FTS1
IC454
TC74LCX541FTS1
IC401
ADV7800BSTZ-80
VIDEO DECODER
VC(Y)
VC(Cb)
VC(Cr)
S_C
S_Y
CVBS
VCS(C)
VCS(Y)
(C'site)
PR
PB
Y
IC402
TC7WHU04FU
X401
ASS7069
28.63636M
GNDD
AK 2/2

AK 2/2 HDMI & DVC ASSY (AWQ7040)

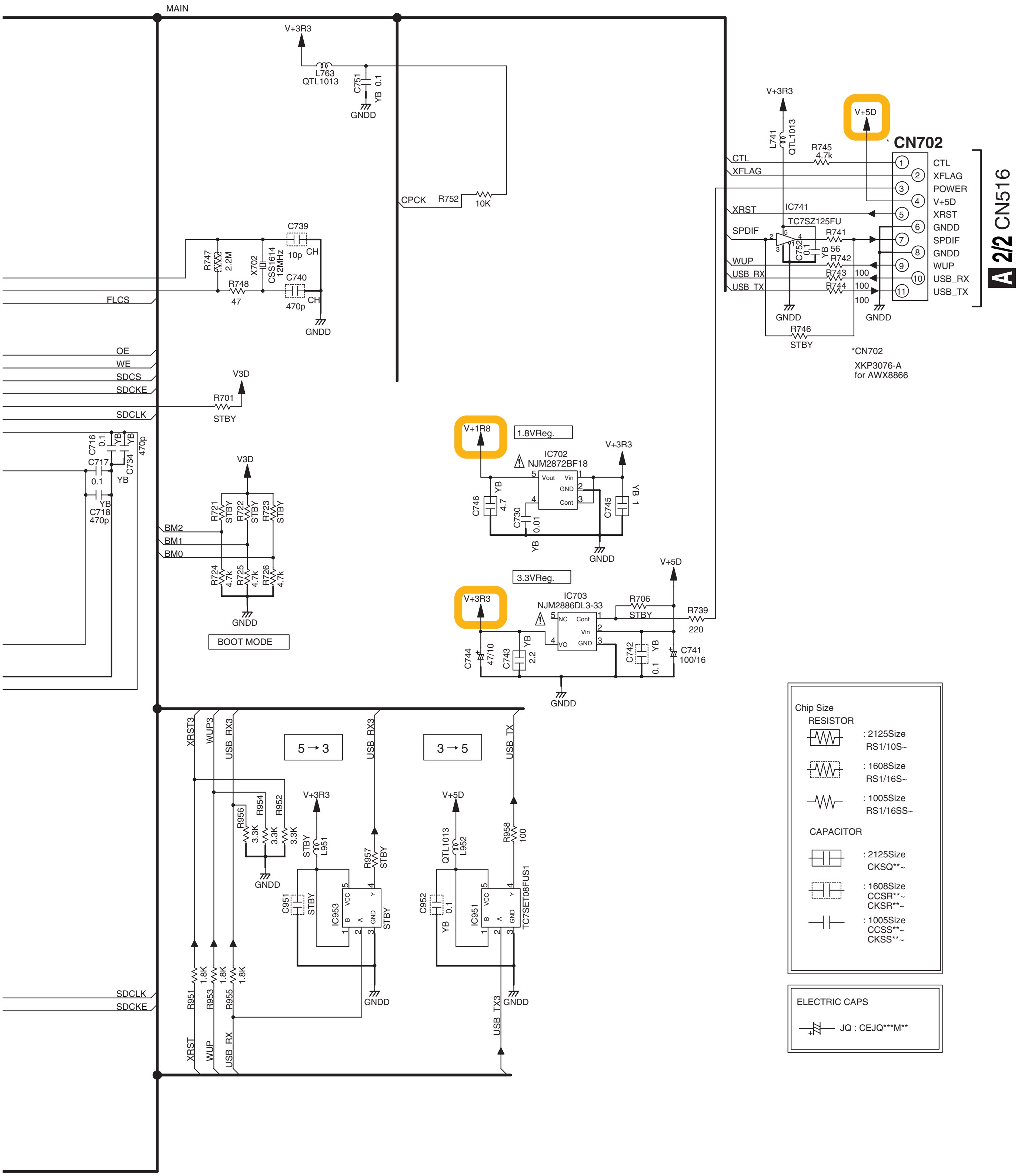

A
B
C
D
E
F
(V) : Video Signal Route
AK 1/2
AUDIO
VIDEO BUFFER
LOGIC
V+5
V+5A
V+5D
L1001 ATL7010
R1002 10
PWRCTL1
R931 100
R932 STBY
V+3R3
IC901 NJM2886DL3-33
NC Cont
Vin
Vo GND
C902 2.2
C901 1
C917 STBY
GNDD
V+1R8
V+3R3
D903 RB551V-30
HDMI Rx
HDMI Tx
LOGIC
V+1R8
Q901 RTQ025P02
L902 4.7μ ATH7047
C913 10/10 DCH1201
C912 10/10 DCH1201
D901 RSX201L-30
C911 DCH1201 10/10
C905 DCH1201 10/10
L901 STBY
L903 ATL7010
R910 0
Q904 STBY
R901 33
C906 1
IC902 BD9850FVM
VREF GND OUT VCC INV FB CTL/SS RT
C904 STBY
C903 10/10
DCH1201
R912 STBY
R913 STBY
R911 STBY
R914 STBY
Q905 STBY
R915 STBY
R905 560
C907 820p
R902 24k(F)
R906 2.2k
C909 4700p
R903 30k(F)
R904 0
C908 STBY
C910 0.01
R922 STBY
R907 18k(F)
R908 0
R909 STBY
Q902 DTC114YUA
Q903 STBY
PWRCTL2
RTCTL
V+1R8
D902 STBY
Q906 STBY
R916 STBY
R917 STBY
C914 STBY
GNDD
V+3R3
V+1R8
R921 0
R920 10k
R918 6.8k
Q908 DTC114YUA
C916 STBY
R919 10k
C915 0.1
Q907 2SC4081(RS)
GNDD
L:ABNORMAL H:NORMAL
V+3R3UC
R581 STBY
Q501 STBY (1/2)
R582 STBY
Q501 STBY (2/2)
R583 STBY
R584 0
R585 STBY
L:MUTE OFF H:MUTE ON
VIDEO DECODER
VIDEO ENCODER
Ucom
FLASH
V+3R3VC
IC903 NJM2845DL1-33
OUT IN
C922 2.2
C921 1
GNDD
VIDEO DECODER
V+1R8VC
IC904 NJM2885DL1-18
OUT IN
C924 DCG1028 4.7/6.3
C923 1
IC905 NJM2845DL1-33
OUT IN
C929 2.2
C928 1
GNDD
C1002 100/16
C1001 0.1
GNDD
HDMI OUT
V+5HD
IC911 NJM2872BF05
NB CONT GND VOUT VIN
V+7D
C927 2.2
C926 0.01
C925 0.1
GNDD
PGOOD
RXMUTE
MUTEO
MUTE
XVCRST
HD_RST
HD_SCK
HD_DO
HD_DI
HD_REQO
HD_REQI
MUTE
R1011
R1012
R1013
MCLKO
BCKO /DCLKO
LRCKO /DR0O
SD0O /DL0O
SD1O /DR1O
SD2O /DL1O
SD3O /DR2O
DATAI
MCLKI
SPDIFO /DL2O
BCKI
LRCKI
FRONT SIDE
CN1001
XKP3092
1 GNDD
2 HDRST
3 HDSCK
4 HDDO
5 HDDI
6 HDREQO
7 HDREQI
8 MUTEOUT
9 GNDD
10 MCK
11 GNDD
12 SCK/DCLK
13 WS/DR0
14 SD0/DL0
15 SD1/DR1
16 SD2/DL1
17 SD3/DR2
18 DATAI
19 GNDD
20 MCKI
21 GNDD
22 SPDIF/DL2
23 GNDD
24 V+5V
25 V+5V
26 BCKI
27 LRCKI
28 GNDD
29 GNDD
30 V+7D
REAR SIDE
C1025 0.1
C1026 1000p
C1027 STBY
C1028 0.1
C1029 1000p
C1030 100p
C1031 100p
GNDD
GND
G 4/4 CN801
VCINT
VCSCL
VCSDA
V+3R3VC
L701 ATL7010
C701 100/16
C702 0.1
R721
C713 0.01
C714 0.1
LLC
SFL
R719 470
R713 47
R718 10k
R717 STBY
R716 10k
R714 10k
R715 STBY
R712 1.2k(F)
R711 1.2k(F)
C712 0.1
V+3R3VC
L702 ATL7010
C711 100/16
C710 1
C709 0.1
C708 0.1
C707 0.1
C706 0.1
IC701 ADV7172KSTZ
VIDEO ENCODER
VAA CLOCK GND VAA VSO RESET PAL_NTSC CLAMP TTX TTXREQ SCRESET/RTC RSET1 VREF
36 COMP1
35 DAC A
34 VAA
33 DAC B
32 VAA
31 GND
30 VAA
29 DAC C
28 DAC D
27 VAA
26 GND
25 DAC E
P0 P1 P2 P3 P4 P5 P6 P7
CSO /HSO
VAA
GND
GND HSYNC FIELD/VSYNC BLANK ALSB GND VAA SCLOCK SDATA RSET2 COMP2 DAC F
P2 P3 P4 P5 P6 P7 P8 P9
C703 0.1
R702 10k
R701 STBY
R704 10k
R703 STBY
R706 10k
R705 STBY
C704 0.1
C705 0.1
R707 47
R708 47
R709 1.2k(F)
R710 1.2k(F)
GNDD
HS
VS
VCSCL
VCSDA
V+5A
R734 STBY
R733 1k
C731 0.1
Q731 2SA1576A(RS)
R731 150(F)
R732 0
GNDD
V+5A
R744 STBY
R743 1k
C741 0.1
Q741 2SA1576A(RS)
R741 150(F)
R742 0
GNDD
V+5A
R754 STBY
R753 1k
C751 0.1
Q751 2SA1576A(RS)
R751 150(F)
R752 0
GNDD
V+5A
R764 STBY
R763 1k
C761 0.1
Q761 2SA1576A(RS)
R761 150(F)
R762 3.3
GNDD
V+5A
R774 STBY
R773 1k
C771 0.1
Q771 2SA1576A(RS)
R771 150(F)
R772 3.3
GNDD
V+5A
R784 STBY
R783 1k
C781 0.1
Q781 2SA1576A(RS)
R781 150(F)
R782 3.3
GNDD
CVBS
S_Y
S_C
Y
PB
PR
(C'site)
VC(C'site)
S(Y)
S(C)
VCS(Y)
VCS(C)
C(Y)
C(Cb)
C(Cr)
VC(Y)
VC(Cb)
VC(Cr)
REAR SIDE
CN1002
XKP3082
1 CVBS IN
2 GNDA
3 CVBS OUT
4 GNDA
5 SY IN
6 GNDA
7 SC IN
8 GNDA
9 SY OUT
10 GNDA
11 SC OUT
12 GNDA
13 Y IN
14 GNDA
15 Cb IN
16 GNDA
17 Cr IN
18 GNDA
19 Y OUT
20 GNDA
21 Cb OUT
22 GNDA
23 Cr OUT
R1101 0
R1102 0
FRONT SIDE
GNDD
GNDA
V CN5811
Chip Size
RESISTOR
: 2125Size RS1/10S~
: 1608Size RS1/16S~
CAPACITOR
: 2125Size CKSQ**~
: 1608Size CCSR**~ CKSR**~

10.22 USB ASSY (VSX-LX50 ONLY)

AL USB ASSY (AWX8866)


A
B
C
D
E
F
CN701
KM200NA4
V5USB
D-
D+
GND
P CN2652
V5USB
R731
STBY
L731
VTL1169
L733
VTH1043
L732
STBY
R734
R732
C732
0.1 YB
C731 JQ
100/16
C733
0.1
YB
GNDD
R737
10
USBH_D-
USBH_D+
R738
10
R735
15k
R736
15k
USB
V+3R3
L704
QTL1013
V3D
P187
V18D
V+1R8
L703
QTL1013
C725
STBY
C724
0.1
C723
470p
USBH_D+
USBH_D-
XRST3
V+3R3
L702
QTL1013
USB_RX3
USB_TX3
CPCK
CPDT
BM2
BM1
BM0
ADIN
UT_RX
UT_TX
R704
4.7K
C709
C710
IC701
TCC8600-00X-EA-UG
USB POWER CONTROL
V5USB
V+5D
R772
100k
R773
STBY
L772
STBY
XFLAG
CTL
R771
100
IC771
AAT4618IGV-0.5-1
C773
C772
C771
STBY
Q771
DTC143EUA
GNDD
SPDIF
VDDIO
CPRDY
WUP3
R730
STBY
C735
R727
22
C726
C727
C728
R705
4.7K
C729
R717
R718
C736
R703
100
R702
R710
R711
R729
100
RAM/ROM
GNDD
C701
C702
C703
C704
C705
C706
C708
C707
GNDD
KN791
STBY
C799
C798
C797
C796
STBY
GNDC
GNDS
GNDD
FLASH ROM
IC762
AYW7146-A/J
S29AL016D70TFI010
VRW1773-A
V+3R3
R762
STBY
L762
QTL1013
C767
C768
R763
47K
OE
FLCS
WE
XRST3
GNDD
64M SDRAM
IC761
HY57V641620ETP-H
V+3R3
R761
STBY
L761
QTL1013
C761
C762
C763
C764
C765
C766
470p
WE
SDCS
GNDD

	CN702	iPod Digital	USB BUS POWER
AWX8866	XKP3076-A	—	○


MAIN
V+3R3
L763
QTL1013
C751
0.1
YB
GNDD
CPCK
R752
10K
C739
10p
CH
R747
2.2M
X702
CSS1614
12MHz
C740
470p
R748
47
FLCS
OE
WE
SDCS
SDCKE
SDCLK
V3D
R701
STBY
C716
0.1
C717
0.1
C734
470p
C718
470p
BM2
BM1
BM0
R721
R722
R723
R724
4.7k
R725
4.7k
R726
4.7k
BOOT MODE
V+1R8
1.8VReg.
IC702
NJM2872BF18
Vout
Vin
GND
Cont
C746
4.7
C730
0.01
C745
1
3.3VReg.
IC703
NJM2886DL3-33
NC
VO
C744
47/10
C743
2.2
R706
R739
220
C742
C741
100/16
V+5D
L741
QTL1013
R745
4.7k
CN702
CTL
XFLAG
XRST
SPDIF
WUP
USB_RX
USB_TX
IC741
TC7SZ125FU
R741
C752
0.1
R742
56
R743
100
R744
100
100
R746
STBY
POWER
V+5D
GNDD
*CN702
XKP3076-A
for AWX8866
A 2/2 CN516
XRST3
WUP3
USB_RX3
5 → 3
USB_RX3
3 → 5
USB_TX
R956
R954
R952
3.3K
3.3K
3.3K
L951
C951
IC953
VCC
B
A
Y
GND
R957
L952
C952
IC951
R958
100
TC7SET08FUS1
R951
R953
R955
1.8K
1.8K
1.8K
USB_TX3
XRST
WUP
USB_RX
Chip Size
RESISTOR
: 2125Size RS1/10S~
: 1608Size RS1/16S~
: 1005Size RS1/16SS~
CAPACITOR
: 2125Size CKSQ**~
: 1608Size CCSR**~ CKSR**~
: 1005Size CCSS**~ CKSS**~
ELECTRIC CAPS
JQ : CEJQ***M**

A

B

C

D

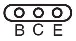
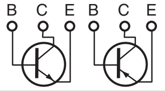
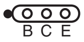
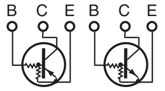
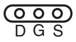
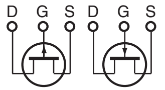
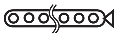
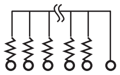
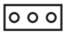
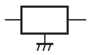
E

F

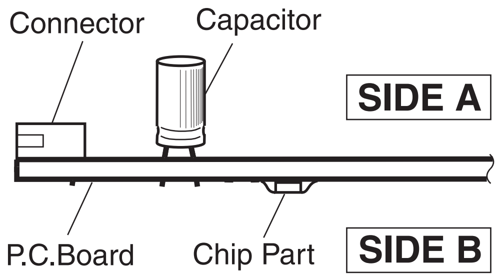
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

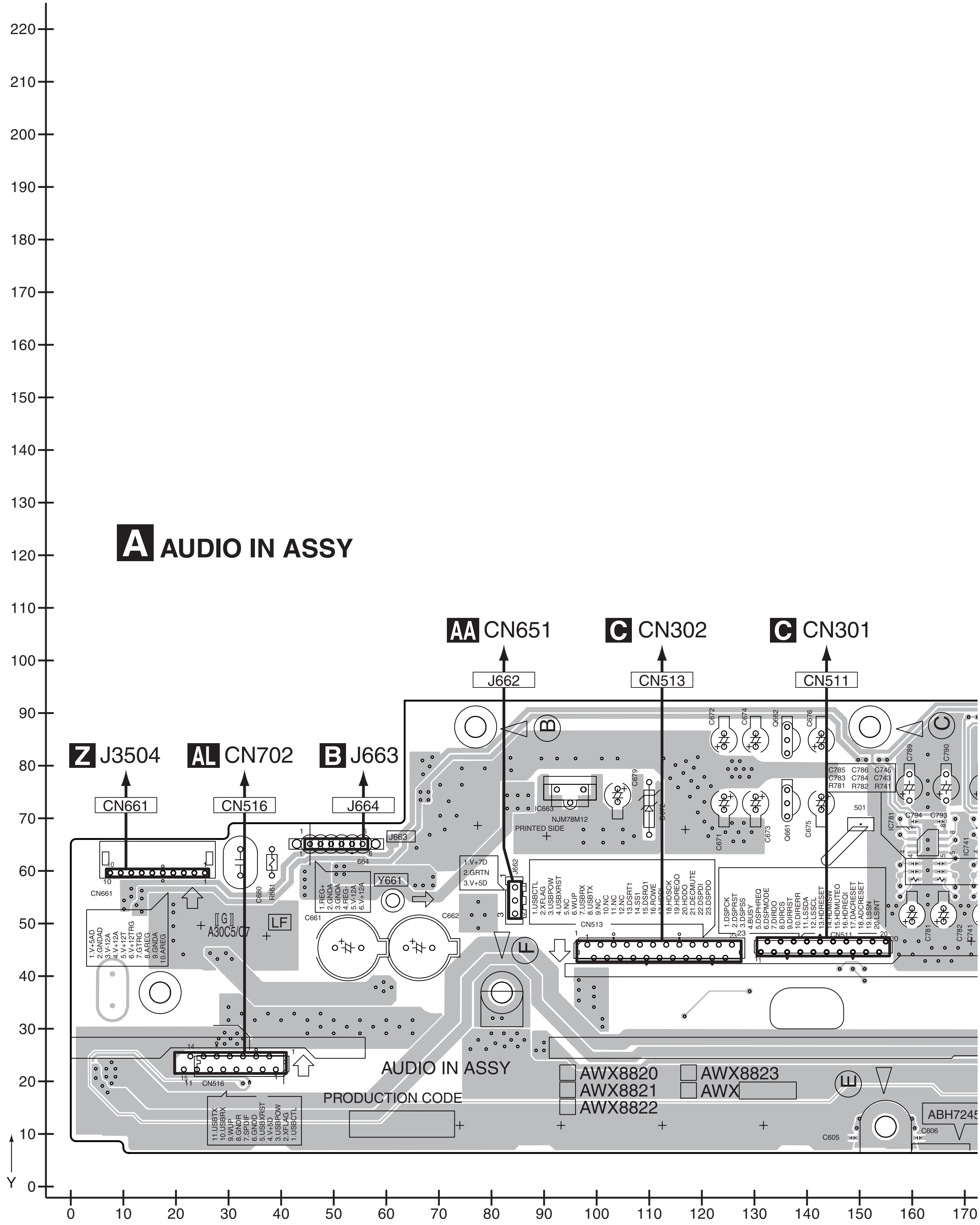
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

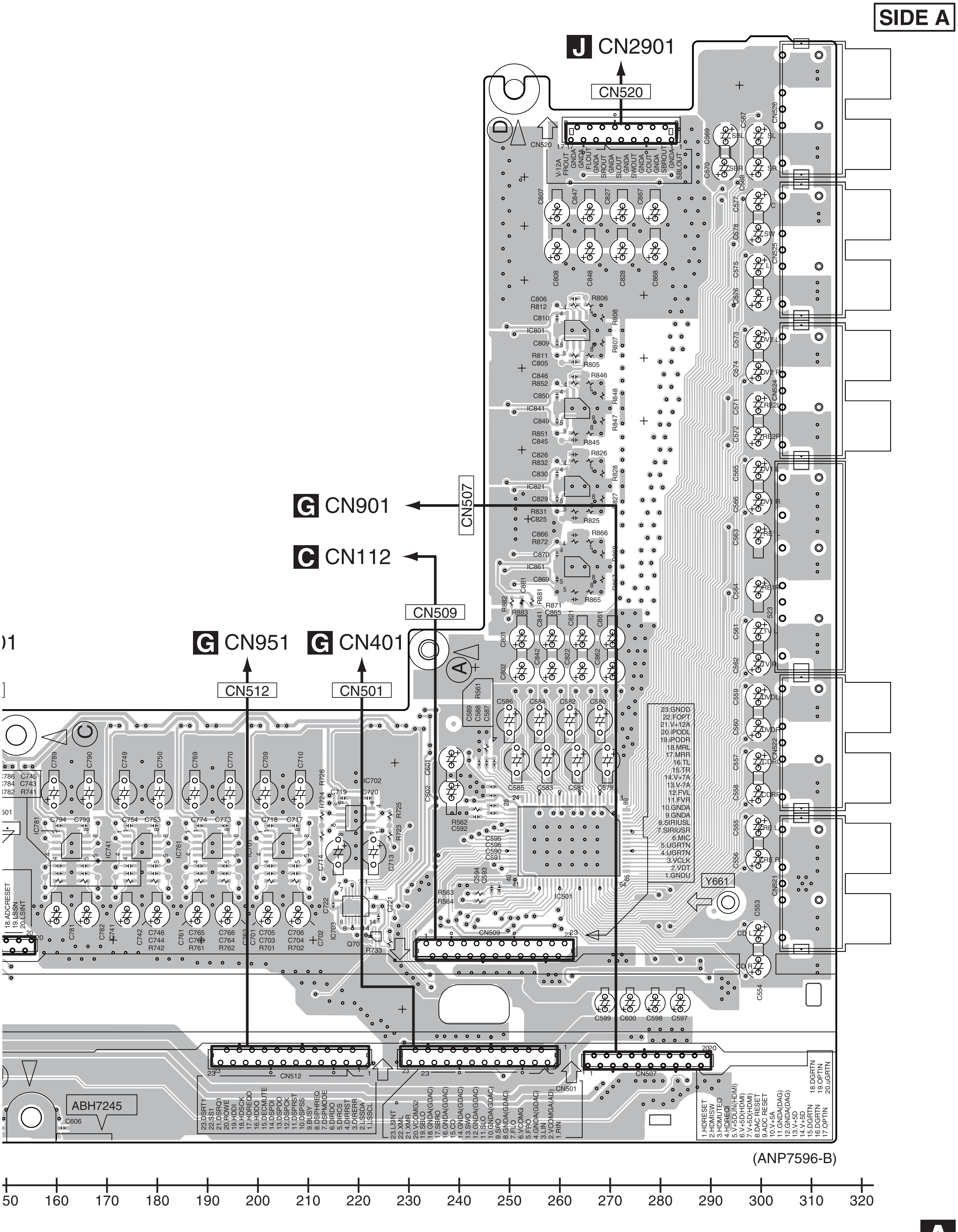
3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.


Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

11.1 AUDIO IN ASSY

SIDE A

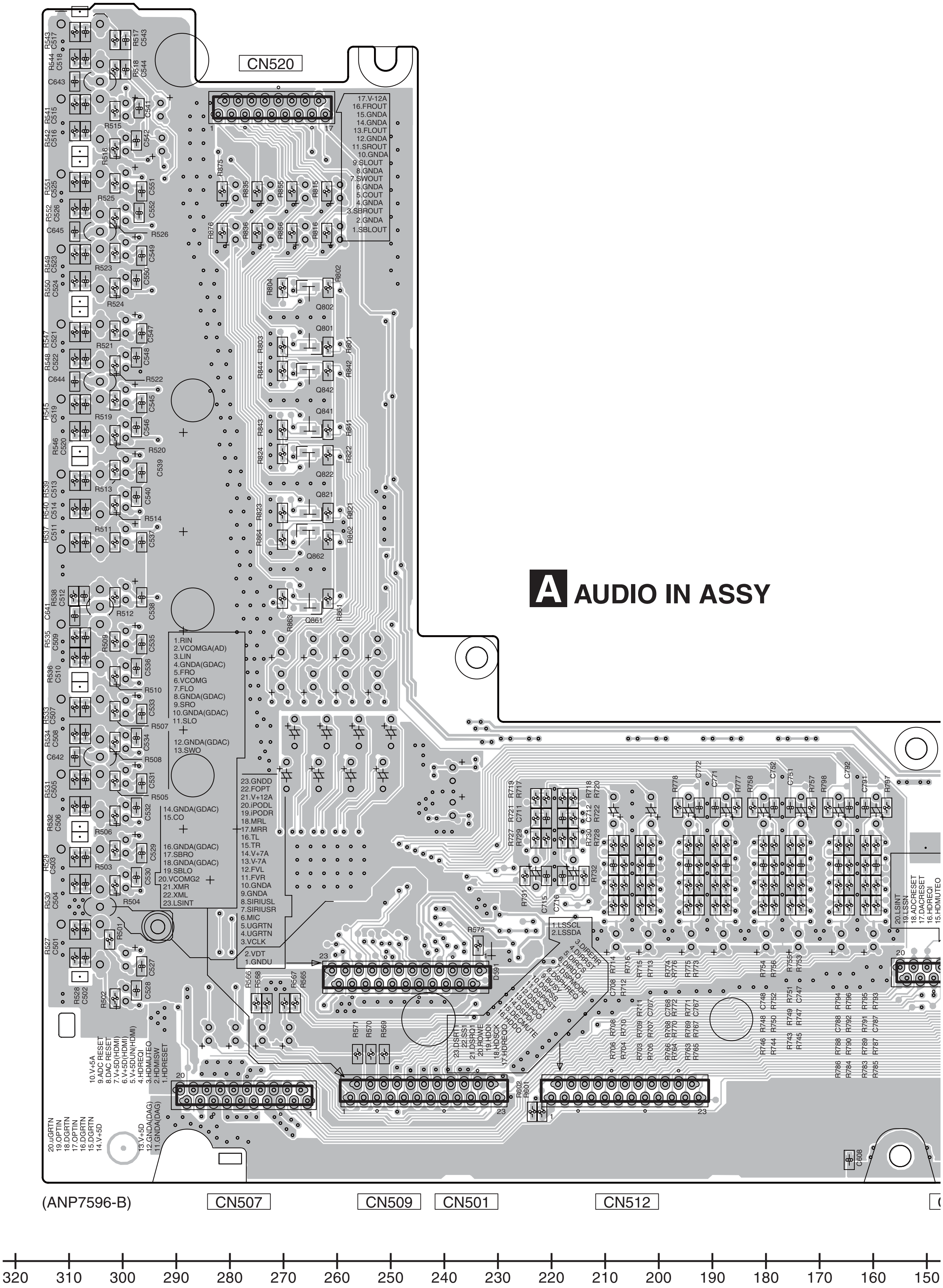

A AUDIO IN ASSY
AA CN651
C CN302
C CN301
J662
CN513
CN511
Z J3504
AL CN702
B J663
CN661
CN516
J664
J663
664
Y661
1.V+7D
2.GRTN
3.V+5D
IC663
NJM78M12
PRINTED SIDE
C672
C674
Q662
C676
C679
C671
C673
Q661
C675
C785 C786 C745
C783 C784 C743
R781 R782 R741
C789
C790
501
IC781
C794
C793
IC741
C781
C782
C741
1.REG+
2.GNDA
3.GNDA
4.REG-
5.V-12A
6.V+12A
C680
R661
C661
C662
1.V+5AD
2.GNDAD
3.V-12A
4.V+12A
5.V+12T
6.V+12TRG
7.GTRG
8.AREG
9.GNDA
10.AREG
[[G]]
A30C5/C7
LF
1.USBCTL
2.XFLAG
3.USBPOW
4.USBXRST
5.NC
6.WUP
7.USBRX
8.USBTX
9.NC
10.NC
11.NC
12.NC
13.DSRT1
14.SS1
15.DSRQ1
16.ROWE
18.HDSCK
19.HDREQO
20.HDDO
21.DECMUTE
22.DSPDI
23.DSPDO
1.DSPCK
2.DSPRST
3.DSPSS
4.BUSY
5.DSPHREQ
6.DSPMODE
7.DIRDO
8.DIRCS
9.DIRRST
10.DIRERR
11.LSSDA
12.LSSCL
13.HDRESET
15.HDMUTEO
16.HDREQI
17.DACRESET
18.ADCRESET
19.LSSN
20.LSINT
B
C
F
E
11.USBTX
10.USBRX
9.WUP
8.GNDR
7.SPDIF
6.GNDD
5.USBXRST
4.V+5D
3.USBPOW
2.XFLAG
1.USBCTL
AUDIO IN ASSY
PRODUCTION CODE
AWX8820
AWX8821
AWX8822
AWX8823
AWX
ABH7245
C605
C606
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
X


SIDE A
J CN2901
CN520
V+12A
FROUT
GNDA
GNDA
FLOUT
GNDA
SROUT
GNDA
SLOUT
GNDA
SWOUT
GNDA
COUT
GNDA
SBROUT
GNDA
SBLOUT
G CN901
CN507
C CN112
CN509
G CN951
G CN401
CN512
CN501
IC801
IC841
IC821
IC861
IC501
IC702
IC703
Y661
CN526
CN525
CN524
CN523
CN522
CN521
SBL
SBR
SL
SR
C
SW
L
R
DV2 L
DV2 R
RE2L
RE2R
DV1 L
DV1 R
RE1 L
RE1 R
TV L
TV R
DVDL
DVDR
CDRL
CDRR
CRE L
CRE R
CD L
CD R
23.GNDD
22.FOPT
21.V+12A
20.iPODL
19.iPODR
18.MRL
17.MRR
16.TL
15.TR
14.V+7A
13.V-7A
12.FVL
11.FVR
10.GNDA
9.GNDA
8.SIRIUSL
7.SIRIUSR
6.MIC
5.UGRTN
4.UGRTN
3.VCLK
2.VDT
1.GNDU
23.DSRT1
22.SS1
21.DSRQ1
20.ROWE
19.HDDI
18.HDSCK
17.HDREQO
16.HDDO
15.DECMUTE
14.DSPDI
13.DSPDO
12.DSPCK
11.DSPRST
10.DSPSS
9.BUSY
8.DSPHREQ
7.DSPMODE
6.DIRDO
5.DIRCS
4.DIRRST
3.DIRERR
2.LSSDA
1.LSSCL
23.LSINT
22.XML
21.XMR
20.VCOMG2
19.SBLO
18.GNDA(GDAC)
17.SBRO
16.GNDA(GDAC)
15.CO
14.GNDA(GDAC)
13.SWO
12.GNDA(GDAC)
11.SLO
10.GNDA(GDAC)
9.SRO
8.GNDA(GDAC)
7.FLO
6.VCOMG
5.FRO
4.GNDA(GDAC)
3.LIN
2.VCOMGA(AD)
1.RIN
1.HDRESET
2.HDMISW
3.HDMUTEO
4.HDREQI
5.V+5DUN(HDMI)
6.V+5D(HDMI)
7.V+5D(HDMI)
8.DAC RESET
9.ADC RESET
10.V+5A
11.GNDA(DAG)
12.GNDA(DAG)
13.V+5D
14.V+5D
15.DGRTN
16.DGRTN
17.OPTIN
18.DGRTN
19.OPTIN
20.uGRTN
18.ADCRESET
19.LSSN
20.LSINT
ABH7245
C606
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320

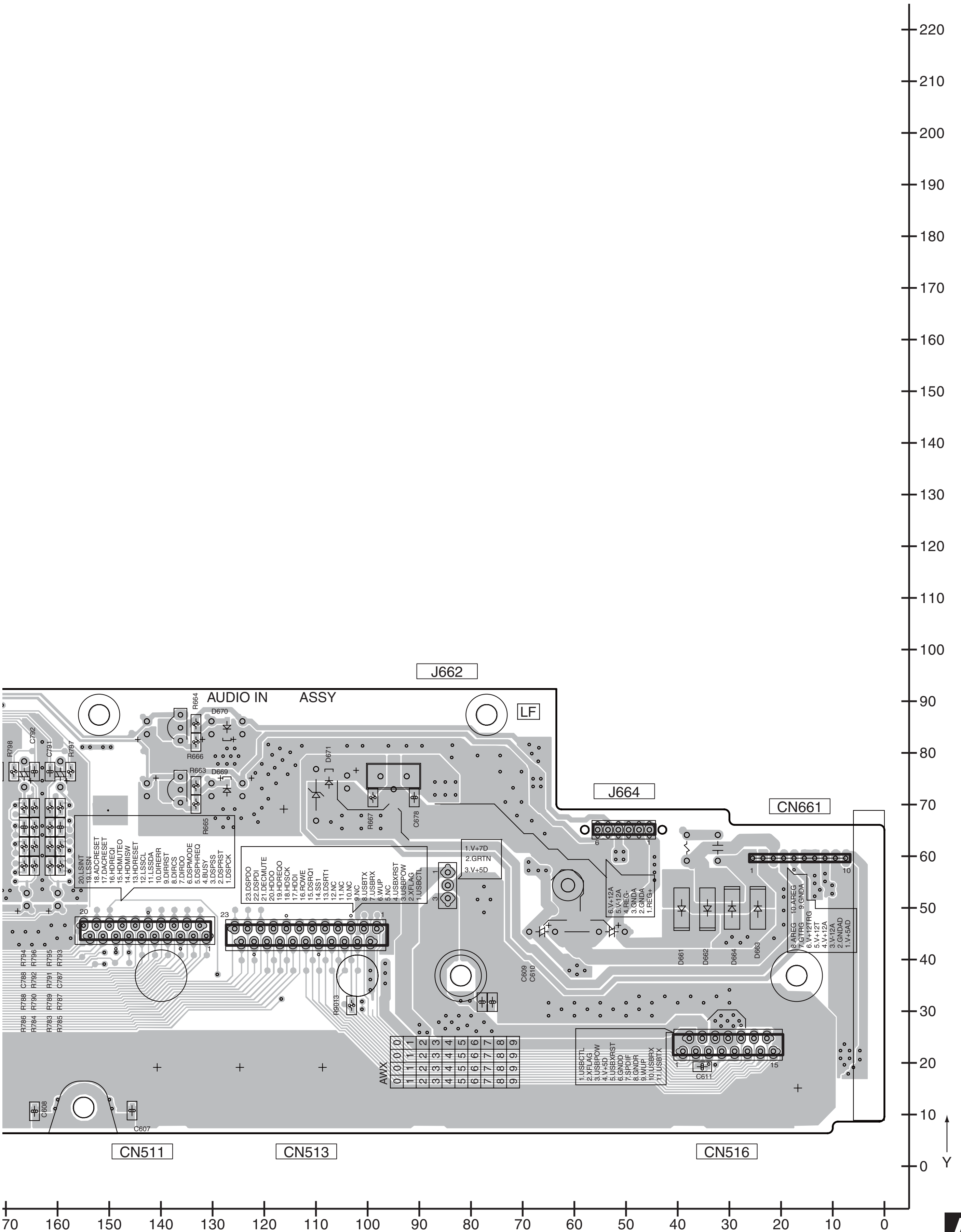
(ANP7596-B)

SIDE B

A AUDIO IN ASSY


CN520
17.V-12A
16.FROUT
15.GNDA
14.GNDA
13.FLOUT
12.GNDA
11.SROUT
10.GNDA
9.SLOUT
8.GNDA
7.SWOUT
6.GNDA
5.COUT
4.GNDA
3.SBROUT
2.GNDA
1.SBLOUT
1.RIN
2.VCOMGA(AD)
3.LIN
4.GNDA(GDAC)
5.FRO
6.VCOMG
7.FLO
8.GNDA(GDAC)
9.SRO
10.GNDA(GDAC)
11.SLO
12.GNDA(GDAC)
13.SWO
14.GNDA(GDAC)
15.CO
16.GNDA(GDAC)
17.SBRO
18.GNDA(GDAC)
19.SBLO
20.VCOMG2
21.XMR
22.XML
23.LSINT
23.GNDD
22.FOPT
21.V+12A
20.iPODL
19.iPODR
18.MRL
17.MRR
16.TL
15.TR
14.V+7A
13.V-7A
12.FVL
11.FVR
10.GNDA
9.GNDA
8.SIRIUSL
7.SIRIUSR
6.MIC
5.UGRTN
4.UGRTN
3.VCLK
2.VDT
1.GNDU
1.LSSCL
2.LSSDA
3.DIRERR
4.DIRRST
5.DIRCS
6.DIRDO
7.DSPMODE
8.DSPHREQ
9.BUSY
10.DSPSSI
11.DSPSO
12.DSPSCK
13.DSPCS
14.DSPFLG
15.DECMUTE
16.HDO
17.HDREQO
18.HDSCK
19.HDDI
20.ROWE
21.DSRO1
22.SS1
23.DSRT1
20.LSINT
19.LSSN
18.ADCRESET
17.DACRESET
16.HDREQI
15.HDMUTEO
10.V+5A
9.ADC RESET
8.DAC RESET
7.V+5D(HDMI)
6.V+5D(HDMI)
5.V+5DUN(HDMI)
4.HDREQI
3.HDMUTEO
2.HDMISW
1.HDRESET
20.uGRTN
19.OPTIN
18.DGRTN
17.OPTIN
16.DGRTN
15.DGRTN
14.V+5D
13.V+5D
12.GNDA(DAG)
11.GNDA(DAG)
Q802
Q801
Q842
Q841
Q822
Q821
Q862
Q861
D591
(ANP7596-B)
CN507
CN509
CN501
CN512
320
310
300
290
280
270
260
250
240
230
220
210
200
190
180
170
160
150

SIDE B



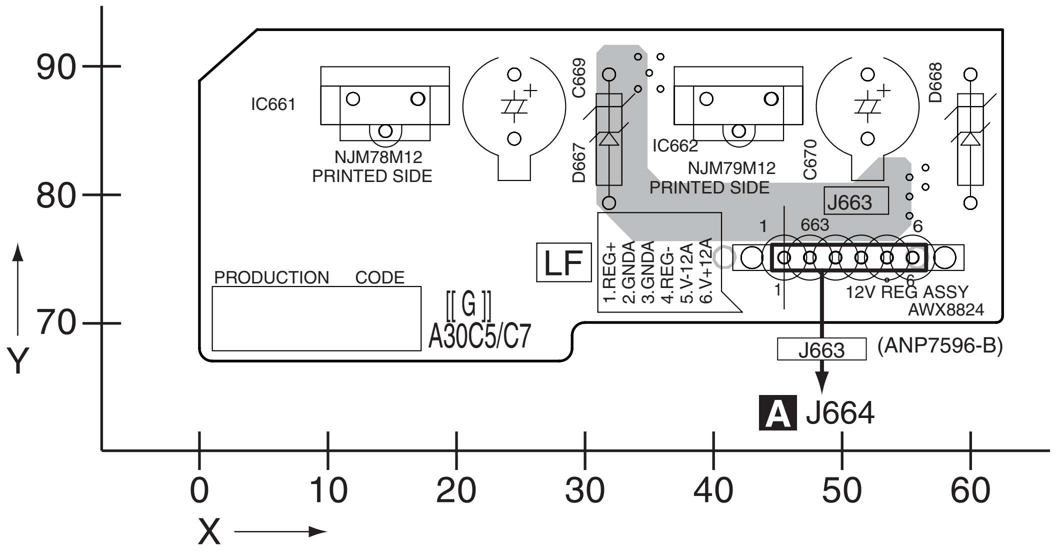
A
B
C
D
E
F
AUDIO IN ASSY
J662
LF
J664
CN661
CN511
CN513
CN516
R664
D670
R666
R663
D669
R665
D671
R667
C678
R798
C792
C791
R797
20.LSINT
19.LSSN
18.ADCRESET
17.DACRESET
16.HDREQI
15.HDMUTEO
14.HDMISW
13.HDRESET
12.LSSCL
11.LSSDA
10.DIRERR
9.DIRRST
8.DIRCS
7.DIRDO
6.DSPMODE
5.DSPHREQ
4.BUSY
3.DSPSS
2.DSPRST
1.DSPCK
23.DSPDO
22.DSPDI
21.DECMUTE
20.HDDO
19.HDREQO
18.HDSCK
17.HDDI
16.ROWE
15.DSRQ1
14.SS1
13.DSRT1
12.NC
11.NC
10.NC
9.NC
8.USBTX
7.USBRX
6.WUP
5.NC
4.USBXRST
3.USBPOW
2.XFLAG
1.USBCTL
1.V+7D
2.GRTN
3.V+5D
6.V+12A
5.V-12A
4.REG-
3.GNDA
2.GNDA
1.REG+
10.AREG
9.GNDA
8.AREG
7.GTRG
6.V+12TRG
5.V+12T
4.V+12A
3.V-12A
2.GNDAD
1.V+5AD
D661
D662
D664
D663
C609
C610
R9013
R794 R796 R795 R793
R788 C788 R792 R791 C787
R786 R784 R790 R789 R787
R783 R785
C608
C607
C611
AWX
0 0 0 0 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9
1.USBCTL
2.XFLAG
3.USBPOW
4.V+5D
5.USBXRST
6.GNDD
7.SPDIF
8.GNDR
9.WUP
10.USBRX
11.USBTX
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
X

A

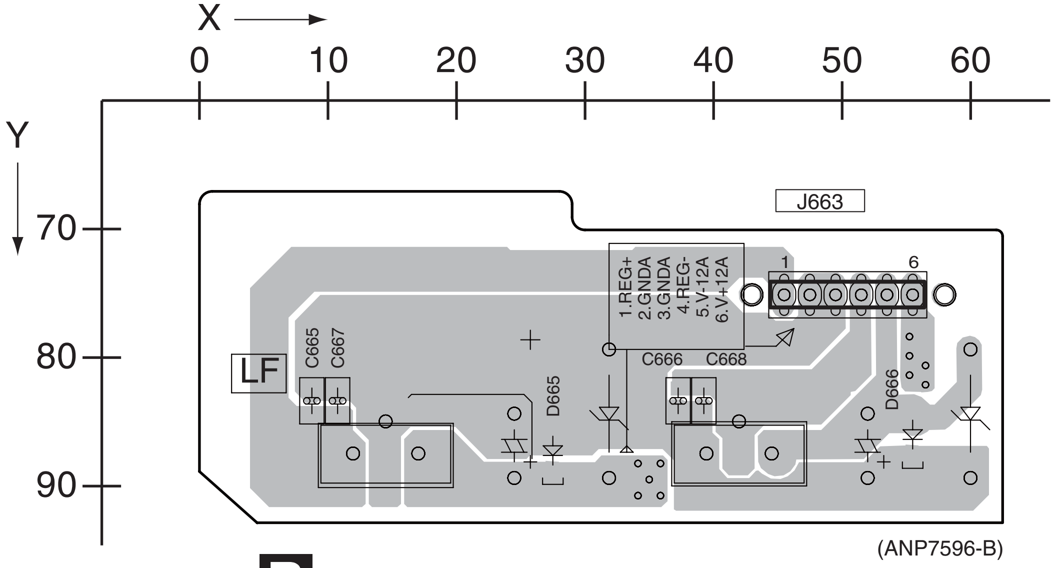
11.2 12V-REG ASSY

SIDE A **SIDE A**

B 12V-REG ASSY


IC661
NJM78M12
PRINTED SIDE
C669
D667
IC662
NJM79M12
PRINTED SIDE
C670
D668
J663
1
663
6
LF
1.REG+
2.GNDA
3.GNDA
4.REG-
5.V-12A
6.V+12A
1
6
12V REG ASSY
AWX8824
PRODUCTION CODE
[[G]]
A30C5/C7
J663
(ANP7596-B)
A J664
90
80
70
Y
0
10
20
30
40
50
60
X

SIDE B **SIDE B**

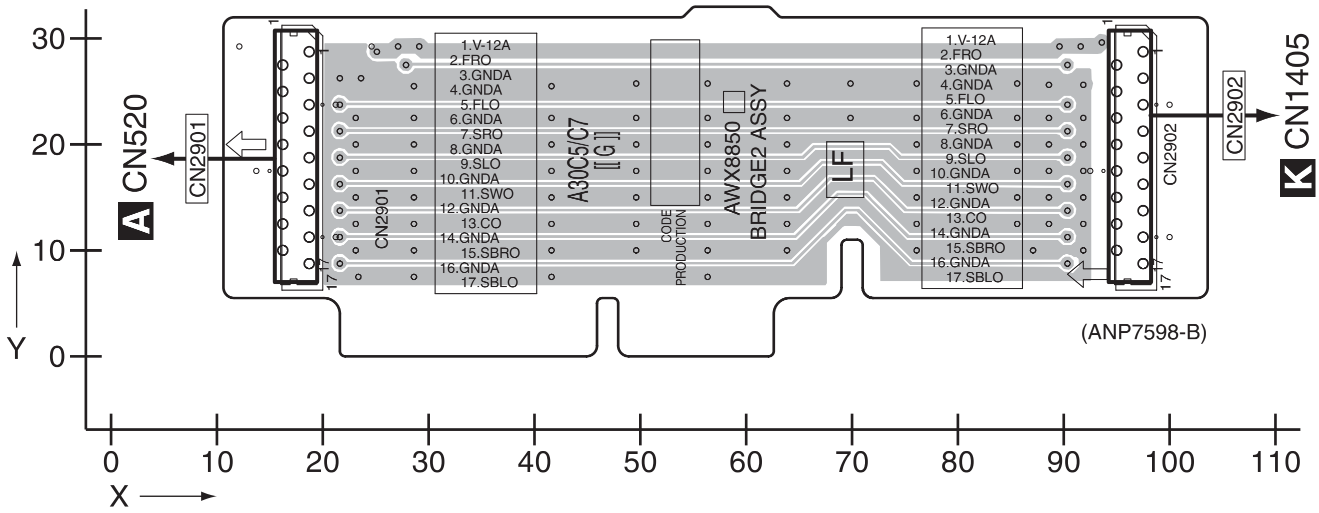

X
0
10
20
30
40
50
60
Y
70
80
90
J663
1
6
1.REG+
2.GNDA
3.GNDA
4.REG-
5.V-12A
6.V+12A
C665
C667
LF
D665
C666
C668
D666
(ANP7596-B)

B 12V-REG ASSY

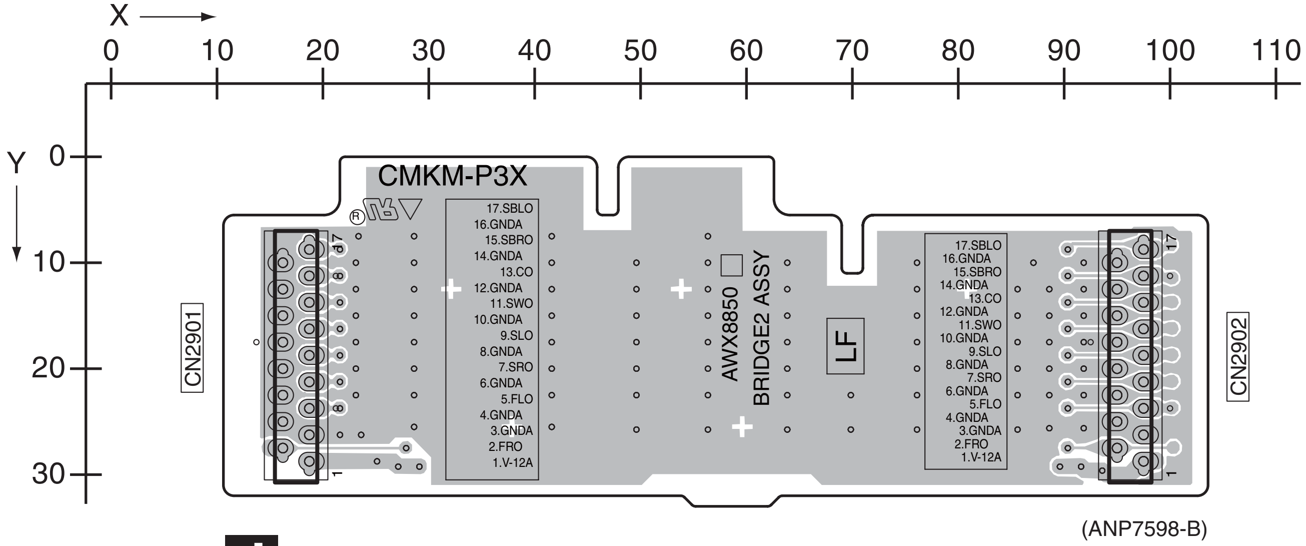
11.3 BRIDGE 2 ASSY

SIDE A **SIDE A**

J BRIDGE 2 ASSY


30
20
10
Y 0
0 10 20 30 40 50 60 70 80 90 100 110
X
A CN520
CN2901
CN2901
1.V-12A
2.FRO
3.GNDA
4.GNDA
5.FLO
6.GNDA
7.SRO
8.GNDA
9.SLO
10.GNDA
11.SWO
12.GNDA
13.CO
14.GNDA
15.SBRO
16.GNDA
17.SBLO
A30C5/C7
[G]
CODE
PRODUCTION
AWX8850
BRIDGE2 ASSY
LF
CN2902
CN2902
K CN1405
1
17
(ANP7598-B)

SIDE B **SIDE B**

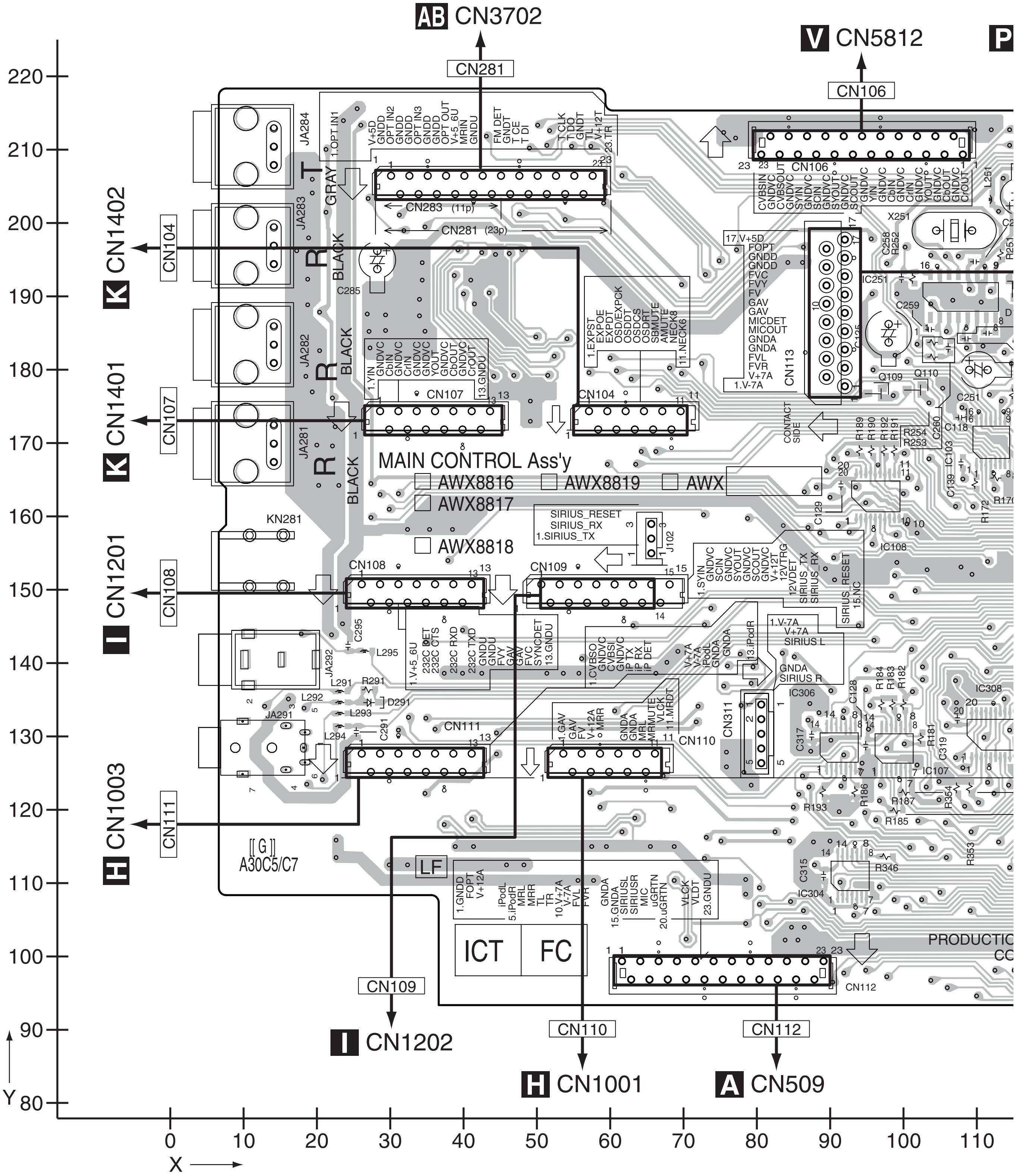

X
0 10 20 30 40 50 60 70 80 90 100 110
Y 0
10
20
30
CMKM-P3X
CN2901
17.SBLO
16.GNDA
15.SBRO
14.GNDA
13.CO
12.GNDA
11.SWO
10.GNDA
9.SLO
8.GNDA
7.SRO
6.GNDA
5.FLO
4.GNDA
3.GNDA
2.FRO
1.V-12A
AWX8850
BRIDGE2 ASSY
LF
CN2902
17
1
(ANP7598-B)

J BRIDGE 2 ASSY

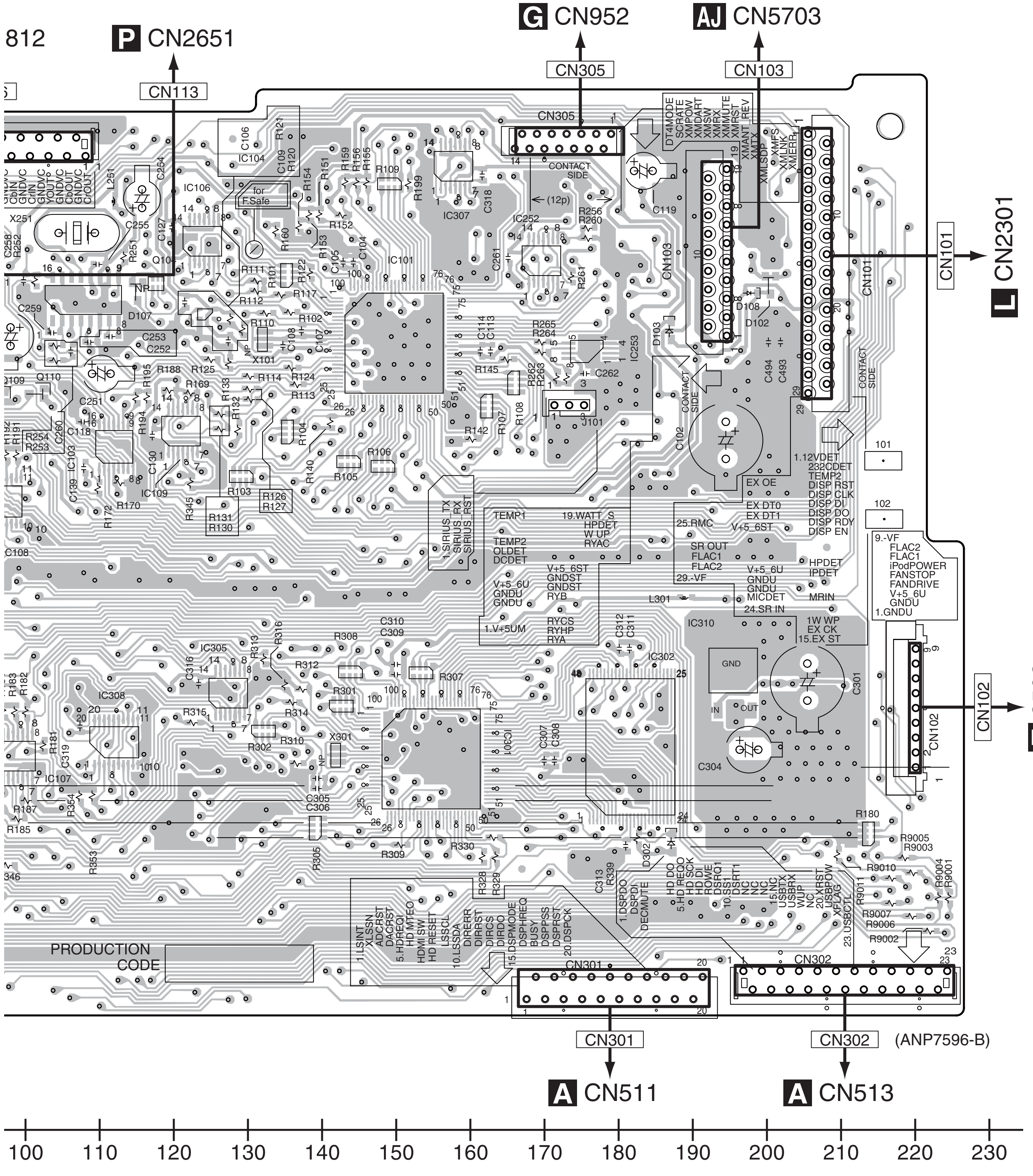
11.4 MAIN CONTROL ASSY

SIDE A

C MAIN CONTROL ASSY


AB CN3702
CN281
V CN5812
CN106
P
K CN1402
CN104
K CN1401
CN107
I CN1201
CN108
H CN1003
CN111
I CN1202
CN109
H CN1001
CN110
A CN509
CN112
JA284
JA283
JA282
JA281
JA291
JA292
KN281
GRAY
BLACK
T
R
CN283 (11p)
CN281 (23p)
C285
CN113
IC251
X251
Q109
Q110
IC108
IC306
IC304
IC307
IC308
CN311
J102
MAIN CONTROL Ass'y
☐ AWX8816
☐ AWX8819
☐ AWX
☐ AWX8817
☐ AWX8818
SIRIUS_RESET
SIRIUS_RX
1.SIRIUS_TX
CONTACT SIDE
[[G]]
A30C5/C7
LF
ICT
FC
PRODUCTIC
CO
X
Y
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
0
10
20
30
40
50
60
70
80
90
100
110

SIDE A

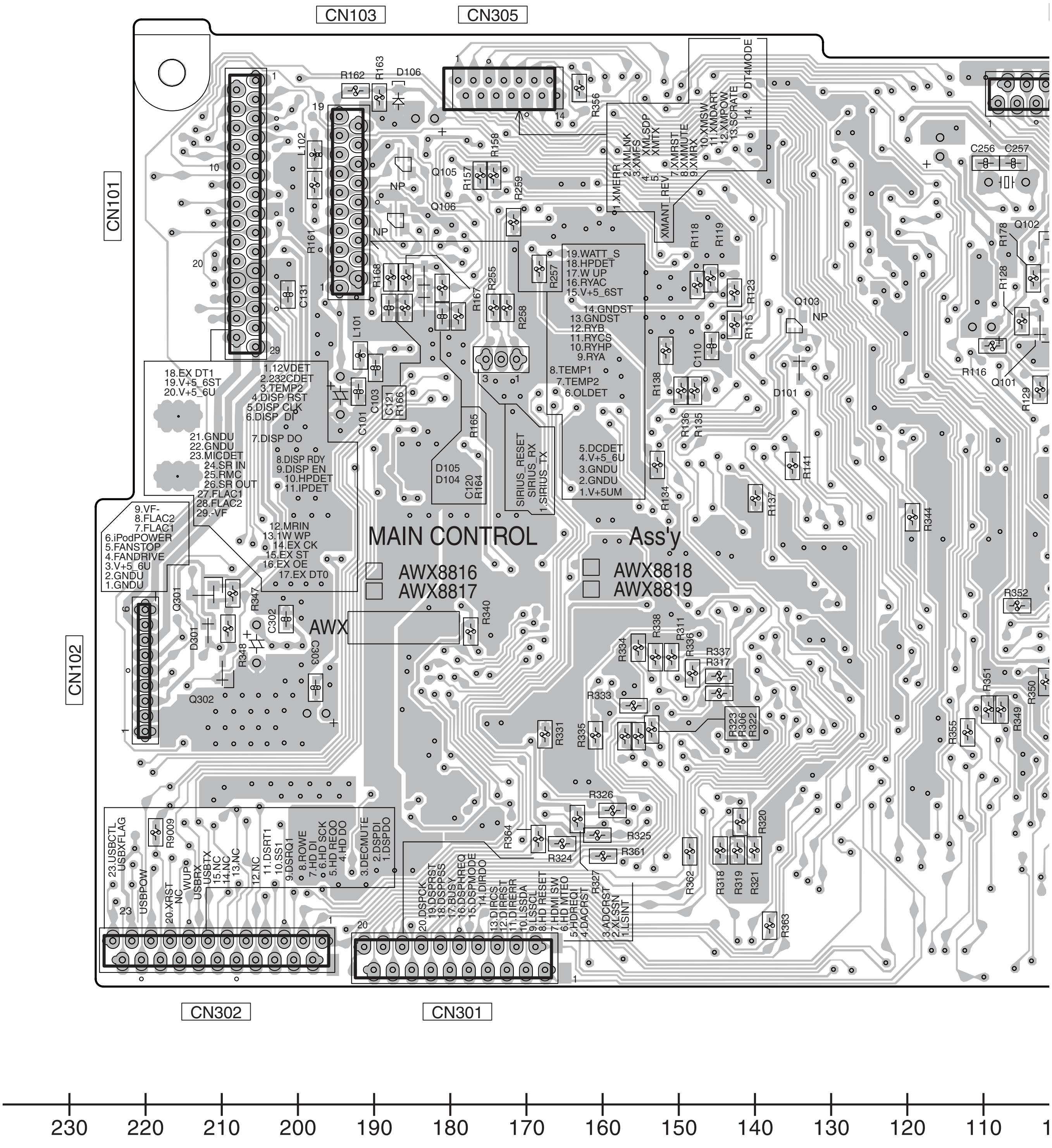

812
P CN2651
CN113
G CN952
CN305
AJ CN5703
CN103
CN101
L CN2301
CN102
Z 3502
CN301
CN302
A CN511
A CN513
(ANP7596-B)
CONTACT SIDE
IC101
IC104
IC106
IC107
IC109
IC252
IC253
IC301
IC302
IC305
IC307
IC308
IC310
PRODUCTION CODE
1.12VDET
232CDET
TEMP2
DISP RST
DISP CLK
DISP DI
DISP DO
DISP RDY
DISP EN
9.-VF
FLAC2
FLAC1
iPodPOWER
FANSTOP
FANDRIVE
V+5_6U
GNDU
1.GNDU
1.SIRIUS_TX
SIRIUS_RX
SIRIUS_RST
TEMP1
19.WATT_S
HPDET
W UP
RYAC
TEMP2
OLDET
DCDET
V+5_6ST
GNDST
GNDST
RYB
V+5_6U
GNDU
GNDU
1.V+5UM
RYCS
RYHP
RYA
25.RMC
SR OUT
FLAC1
FLAC2
29.-VF
EX OE
EX DT0
EX DT1
V+5_6ST
V+5_6U
GNDU
GNDU
MICDET
24.SR IN
HPDET
IPDET
MRIN
1W WP
EX CK
15.EX ST
DT4MODE
SCRATE
XMPOW
XMDART
XMSW
XMRX
XMMUTE
19. XMRST
XMANT_REV
XMTX
XMLSDP
XMFS
XMLNK
XMERR
1.LSINT
XLSSN
ADCRST
DACRST
5.HDREQI
HD MTEO
HDMI SW
HD RESET
LSSCL
10.LSSDA
DIRERR
DIRRST
DIRCS
DIRDO
15.DSPMODE
DSPHREQ
BUSY
DSPPSS
DSPRST
20.DSPCK
1.DSPDO
DSPDI
DECMUTE
HD DO
5.HD REQO
HD SCK
HD DI
ROWE
DSRQ1
10.SS1
DSRT1
NC
NC
NC
15.NC
USBTX
USBRX
WUP
NC
20.XRST
USBPOW
XFLAG
23.USBCTL
for F.Safe
GND
IN
OUT
100
110
120
130
140
150
160
170
180
190
200
210
220
230

SIDE B

A

C MAIN CONTROL ASSY

B


CN103
CN305
CN101
CN102
CN302
CN301
MAIN CONTROL Ass'y
AWX8816
AWX8817
AWX8818
AWX8819
AWX
1.12VDET
2.232CDET
3.TEMP2
4.DISP RST
5.DISP CLK
6.DISP DI
7.DISP DO
8.DISP RDY
9.DISP EN
10.HPDET
11.IPDET
12.MRIN
13.1W WP
14.EX CK
15.EX ST
16.EX OE
17.EX DT0
18.EX DT1
19.V+5_6ST
20.V+5_6U
21.GNDU
22.GNDU
23.MICDET
24.SR IN
25.RMC
26.SR OUT
27.FLAC1
28.FLAC2
29.-VF
9.VF-
8.FLAC2
7.FLAC1
6.iPodPOWER
5.FANSTOP
4.FANDRIVE
3.V+5_6U
2.GNDU
1.GNDU
1.XMERR
2.XMLNK
3.XMFS
4.
5.
XMLSDP
XMTX
7.XMRST
8.XMMUTE
9.XMRX
10.XMSW
11.XMDART
12.XMPOW
13.SCRATE
14.
DT4MODE
XMANT_REV
19.WATT_S
18.HPDET
17.W UP
16.RYAC
15.V+5_6ST
14.GNDST
13.GNDST
12.RYB
11.RYCS
10.RYHP
9.RYA
8.TEMP1
7.TEMP2
6.OLDET
5.DCDET
4.V+5_6U
3.GNDU
2.GNDU
1.V+5UM
SIRIUS_RESET
SIRIUS_RX
1.SIRIUS_TX
23.USBCTL
USBXFLAG
USBPOW
20.XRST
NC
WUP
USBRX
USBTX
15.NC
14.NC
13.NC
12.NC
11.DSRT1
10.SS1
9.DSRQ1
8.ROWE
7.HD DI
6.HD SCK
5.HD REQO
4.HD DO
3.DECMUTE
2.DSPDI
1.DSPDO
20.DSPCK
19.DSPRST
18.DSPSS
17.BUSY
16.DSPHREQ
15.DSPMODE
14.DIRDO
13.DIRCS
12.DIRRST
11.DIRERR
10.LSSDA
9.LSSCL
8.HD RESET
7.HDMI SW
6.HD MTEO
5.HDREQI
4.DACRST
3.ADCRST
2.XLSSN
1.LSINT
R162
R163
D106
R356
R158
R157
Q105
Q106
NP
R259
L102
R161
C131
R168
R167
R255
R257
R258
L101
C101
C103
C121
R166
R165
D105
D104
C120
R164
R118
R119
R123
R115
Q103
R138
R110
C110
R136
R135
D101
R134
R141
R137
R344
C256
C257
Q102
R178
R128
R116
Q101
R129
R352
R351
R350
R349
R355
Q301
D301
R347
C302
C303
R348
Q302
R340
R334
R338
R311
R336
R337
R317
R333
R323
R306
R322
R331
R335
R326
R325
R324
R361
R327
R364
R362
R318
R319
R321
R320
R363
R9009
1
10
19
20
29
14
6
23
3
230
220
210
200
190
180
170
160
150
140
130
120
110

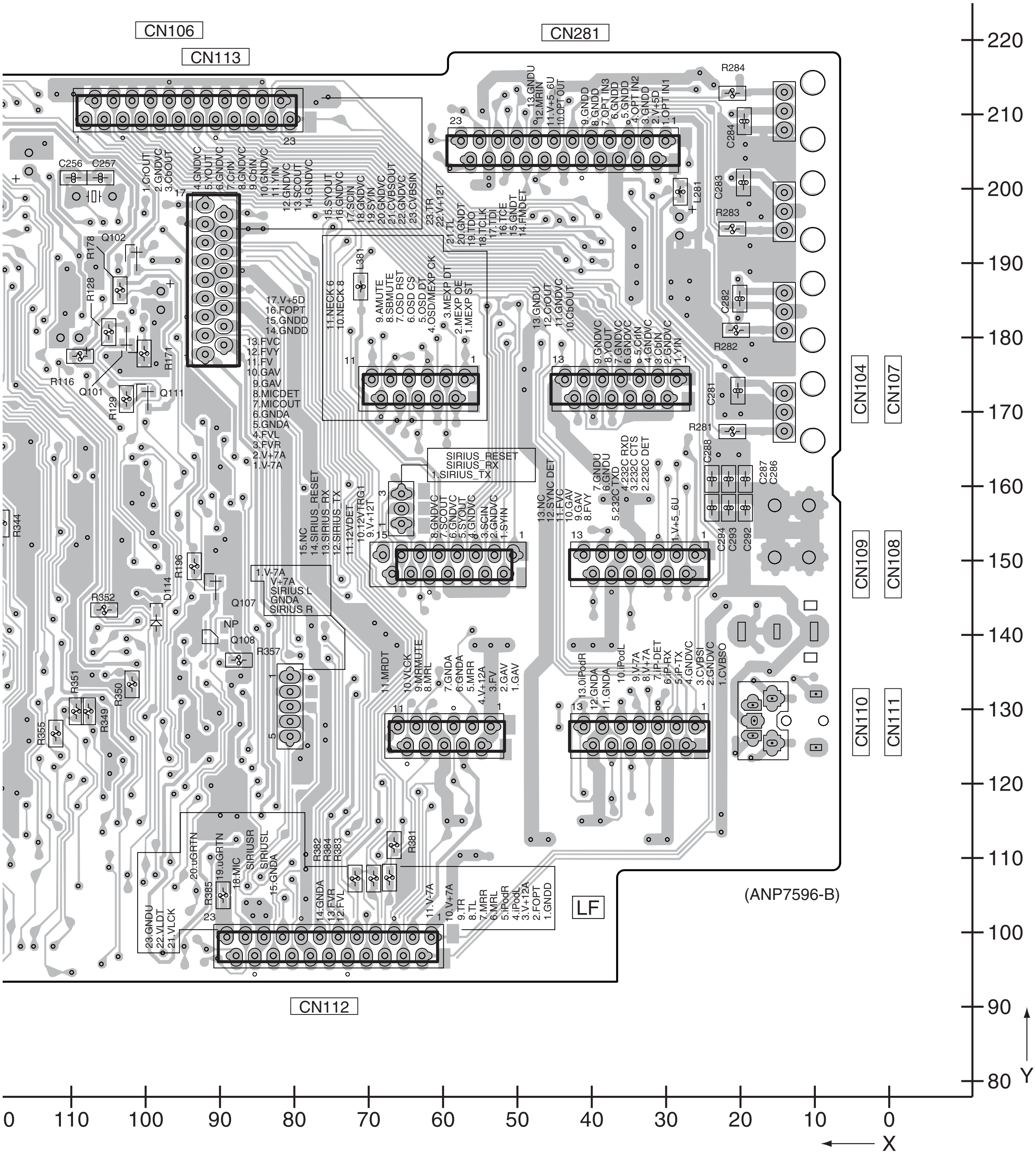
C

D

E

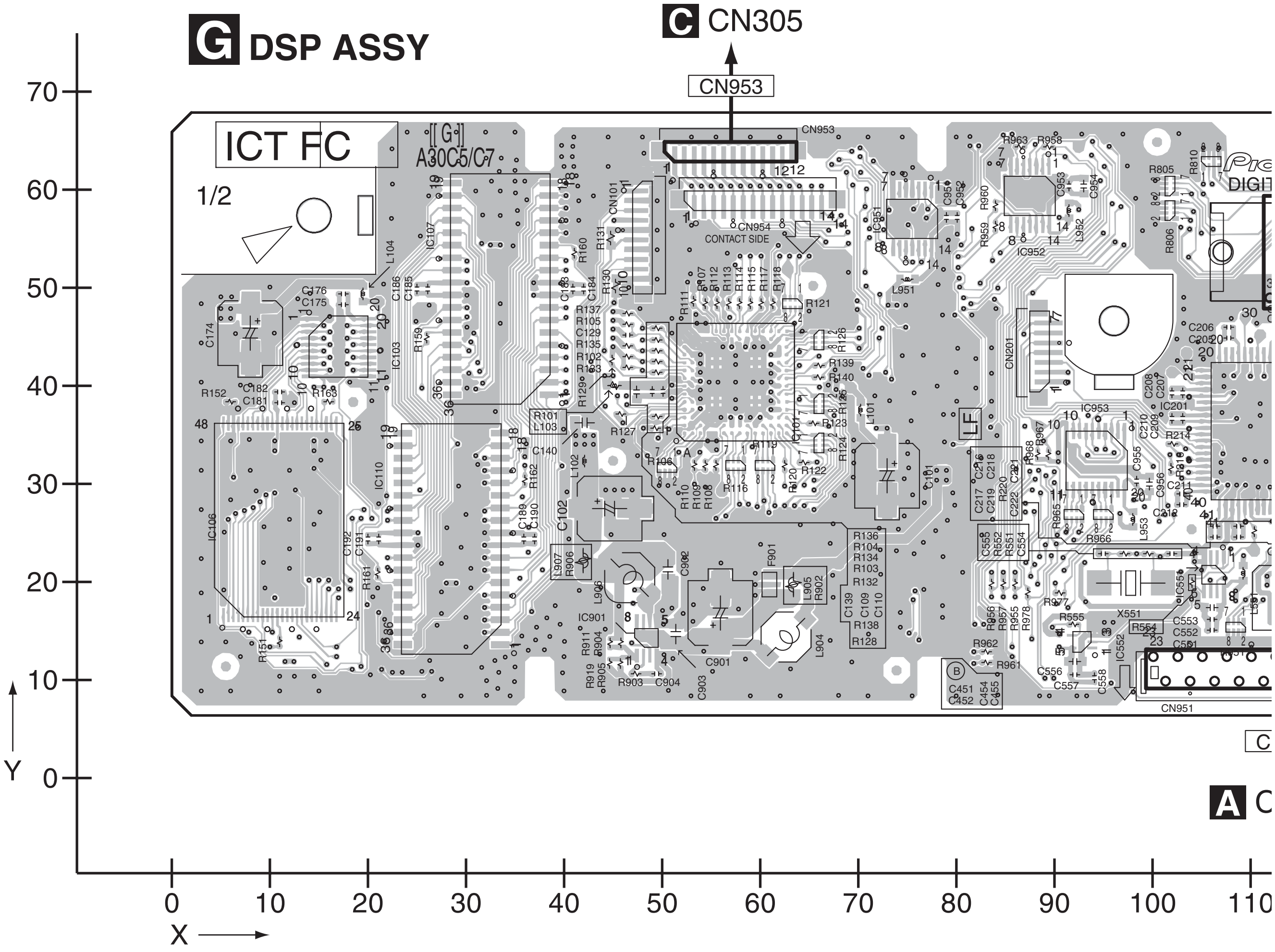
F

SIDE B

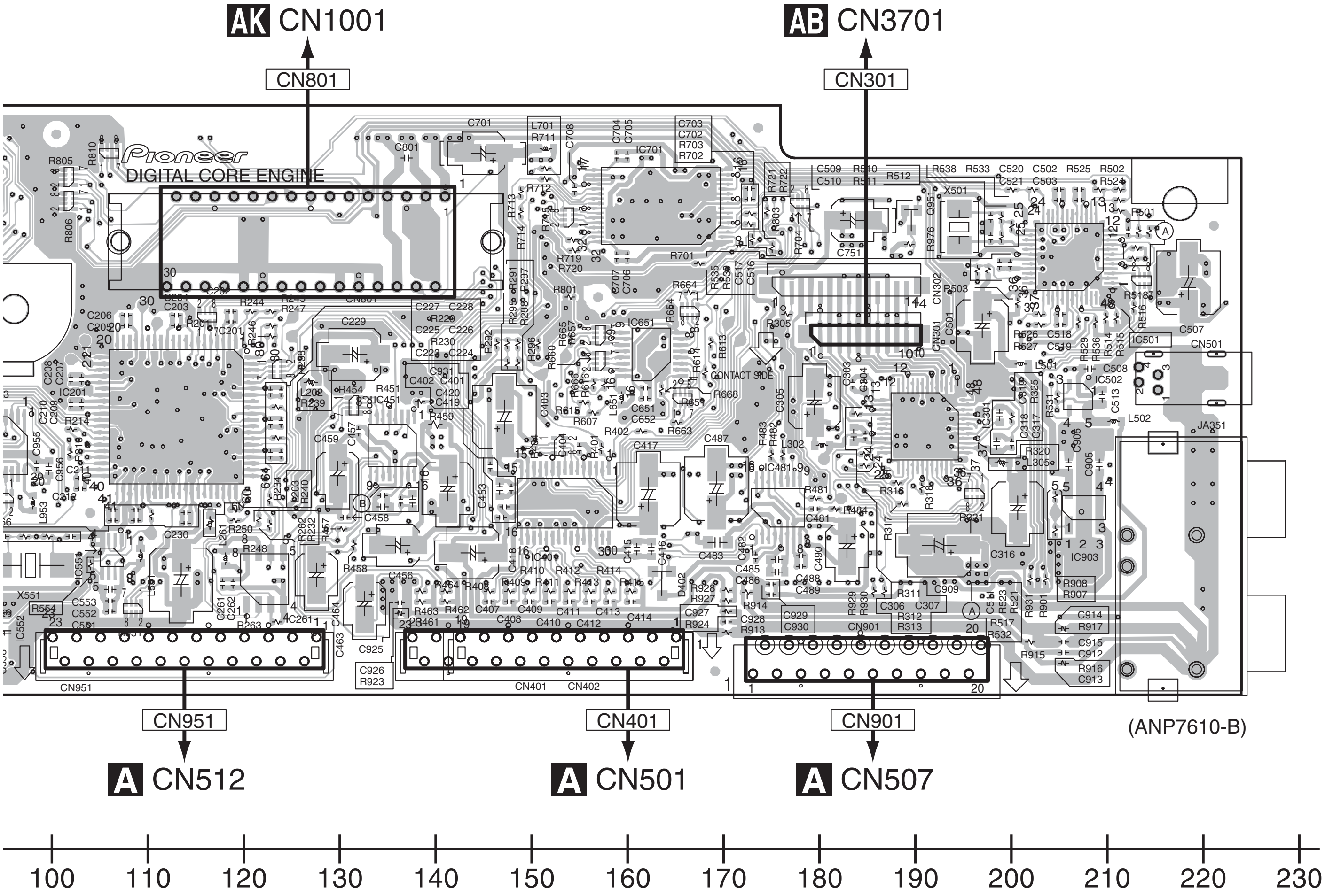

CN106
CN113
CN281
CN104
CN107
CN109
CN108
CN110
CN111
CN112
LF
(ANP7596-B)
R284
C284
C283
L281
R283
C282
R282
C281
R281
C288
C287
C286
C294
C293
C292
C256
C257
Q102
R178
R128
R116
Q101
R129
Q111
R171
R344
R196
D114
Q107
NP
Q108
R357
R352
R351
R350
R349
R355
L381
R385
R382
R384
R383
R381
1.CrOUT
2.GNDVC
3.CbOUT
4.GNDVC
5.YOUT
6.GNDVC
7.CrIN
8.GNDVC
9.CbIN
10.GNDVC
11.YIN
12.GNDVC
13.SCOUT
14.GNDVC
15.SYOUT
16.GNDVC
17.SCIN
18.GNDVC
19.SYIN
20.GNDVC
21.CVBSOUT
22.GNDVC
23.CVBSIN
23.TR
22.V+12T
21.TL
20.GNDT
19.TDO
18.TCLK
17.TDI
16.TCE
15.GNDT
14.FMDET
13.GNDU
12.MRIN
11.V+5_6U
10.OPTOUT
9.GNDD
8.GNDD
7.OPT IN3
6.GNDD
5.GNDD
4.OPT IN2
3.GNDD
2.V+5D
1.OPT IN1
17.V+5D
16.FOPT
15.GNDD
14.GNDD
13.FVC
12.FVY
11.FV
10.GAV
9.GAV
8.MICDET
7.MICOUT
6.GNDA
5.GNDA
4.FVL
3.FVR
2.V+7A
1.V-7A
11.NECK 6
10.NECK 8
9.AMUTE
8.SBMUTE
7.OSD RST
6.OSD CS
5.OSD DT
4.OSD/MEXP CK
3.MEXP DT
2.MEXP OE
1.MEXP ST
13.GNDU
12.CrOUT
11.GNDVC
10.CbOUT
9.GNDVC
8.YOUT
7.GNDVC
6.GNDVC
5.CrIN
4.GNDVC
3.CbIN
2.GNDVC
1.YIN
SIRIUS_RESET
SIRIUS_RX
1.SIRIUS_TX
15.NC
14.SIRIUS_RESET
13.SIRIUS_RX
12.SIRIUS_TX
11.12VDET
10.12VTRG1
9.V+12T
8.GNDVC
7.SCOUT
6.GNDVC
5.SYOUT
4.GNDVC
3.SCIN
2.GNDVC
1.SYIN
13.NC
12.SYNC DET
11.FVC
10.GAV
9.GAV
8.FVY
7.GNDU
6.GNDU
5.232CTXD
4.232C RXD
3.232C CTS
2.232C DET
1.V+5_6U
1.V-7A
V+7A
SIRIUS L
GNDA
SIRIUS R
11.MRDT
10.VLCK
9.MRMUTE
8.MRL
7.GNDA
6.GNDA
5.MRR
4.V+12A
3.FV
2.GAV
1.GAV
13.0iPodR
12.GNDA
11.GNDA
10.iPodL
9.V-7A
8.V+7A
7.IP-DET
6.IP-RX
5.IP-TX
4.GNDVC
3.CVBSI
2.GNDVC
1.CVBSO
23.GNDU
22.VLDT
21.VLCK
20.uGRTN
19.uGRTN
18.MIC
SIRIUSR
SIRIUSL
15.GNDA
14.GNDA
13.FVR
12.FVL
11.V-7A
10.V+7A
9.TR
8.TL
7.MRR
6.MRL
5.iPodR
4.iPodL
3.V+12A
2.FOPT
1.GNDD
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
Y
0
110
100
90
80
70
60
50
40
30
20
10
0
X

11.5 DSP ASSY

SIDE A

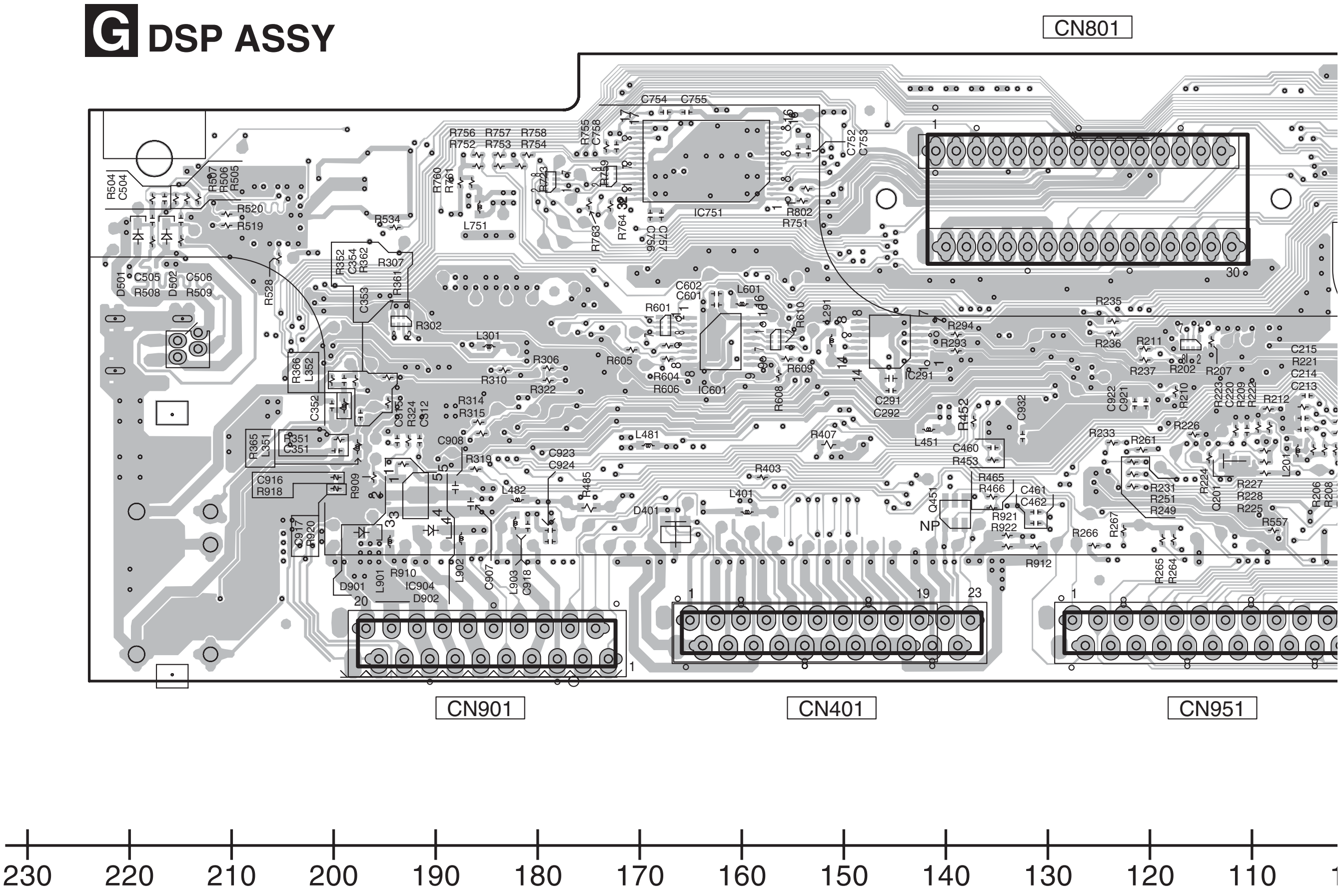

G DSP ASSY
C CN305
CN953
ICT FC
1/2
[[G]]
A30C5/C7
CN951
A C
Y
X
0
10
20
30
40
50
60
70
80
90
100
110
IC101
IC103
IC106
IC107
IC110
IC201
IC551
IC552
IC901
IC951
IC952
IC953
CN101
CN201
CN954
CONTACT SIDE
LF

SIDE A


AK CN1001
CN801
AB CN3701
CN301
Pioneer
DIGITAL CORE ENGINE
CONTACT SIDE
CN951
CN401
CN901
A CN512
A CN501
A CN507
(ANP7610-B)
100
110
120
130
140
150
160
170
180
190
200
210
220
230

SIDE B

G DSP ASSY


CN801
C754 C755
R756 R757 R758
R752 R753 R754
R755 C758
R760 R761
R759
C763
IC751
R802 R751
C752 C753
R504 C504
R507 R506 R505
R520 R519
R534
L751
R763 R764
C756 C757
R852 C354 R362
R307
R361
C353
D501 C505 D502 C506
R508 R509
R528
R302
L301
C602 C601 L601
R601
R610
L291
R294 R293
R235
R236
R211
R237 R202 R207
C215 R221 C214 C213
R306
R310 R322
R605
R604 R606 IC601
R609 R608
IC291
C291 C292
R452
C932
C922 C921
R210 R223 C220 R209 R222
R212
R366 L352
C352
C315 R324 C312
R314 R315
C908
L481
R407
L451
C460 R453
R233 R261
R226
R365 L351 R351 C351
C916 R918
R909
R319
C923 C924
R403
L482
R485
L401
D401
Q451 NP
R465 R466
C461 C462
R921 R922
R231 R251 R249
R224 Q201 L201
R227 R228 R225
R206 R208
R557
C917 R920
R910
IC904
D901 L901 L902 C907 L903 C918
D902
R266 R267
R912
R265 R264
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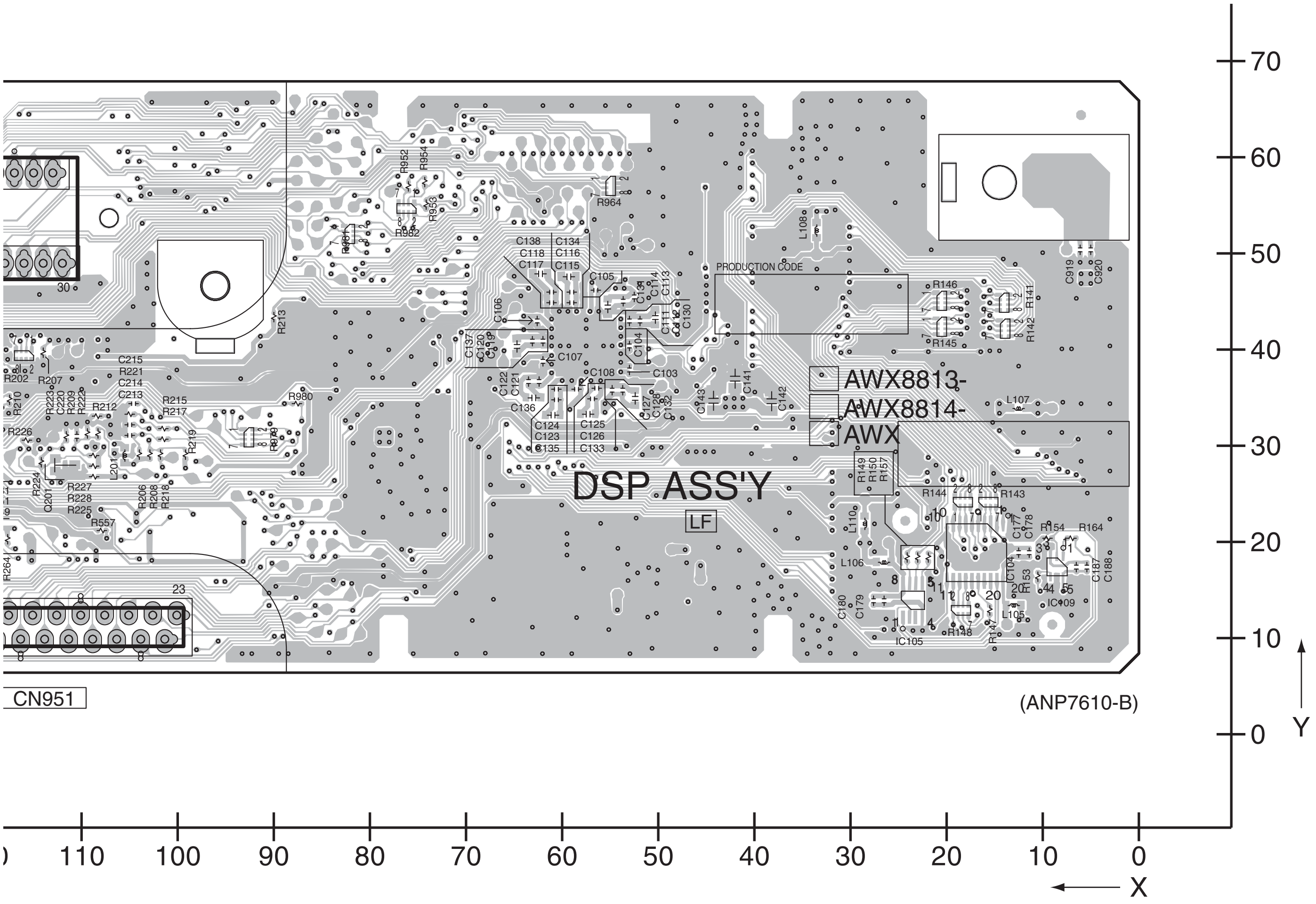
CN901
CN401
CN951
230 220 210 200 190 180 170 160 150 140 130 120 110

SIDE B


DSP ASS'Y
LF
AWX8813-
AWX8814-
AWX
PRODUCTION CODE
CN951
(ANP7610-B)
R952
R954
R953
R962
R961
R964
C138
C134
C118
C116
C117
C115
C105
C114
C113
C131
C111
C112
C130
C104
C106
C137
C120
C119
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C122
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C136
C108
C103
C124
C125
C123
C126
C135
C133
C127
C128
C132
C143
C141
C142
L108
R146
R141
R142
R145
C919
C920
L107
R149
R150
R157
R144
R143
L110
L106
C177
C178
R154
R164
C187
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R148
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R221
C214
C213
R202
R207
R210
R223
C220
R209
R222
R212
R215
R217
R980
R226
R219
R224
C201
R227
R228
R225
R557
L201
R206
R208
R218
R264
30
23
70
60
50
40
30
20
10
0
Y
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50
40
30
20
10
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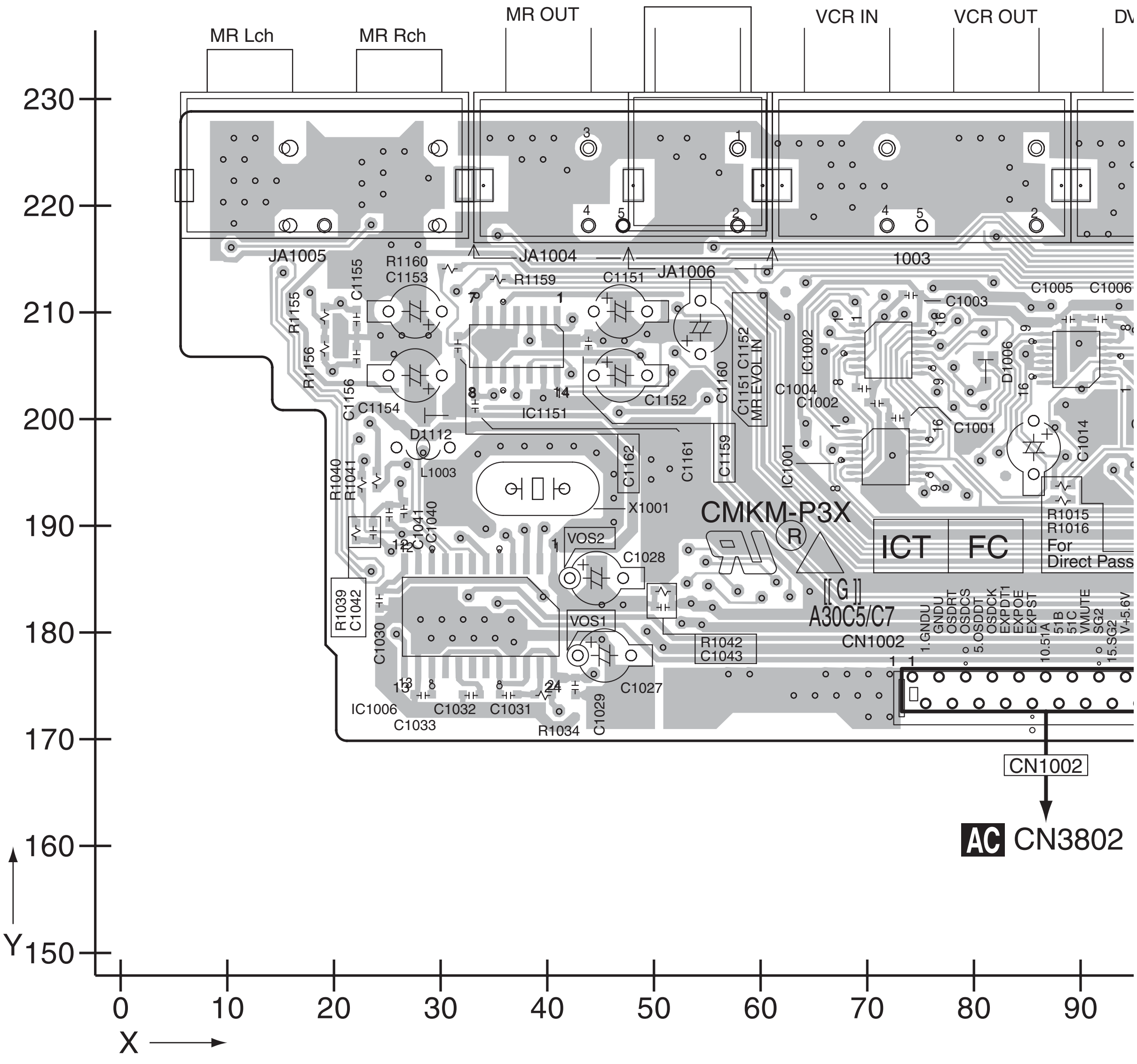
X

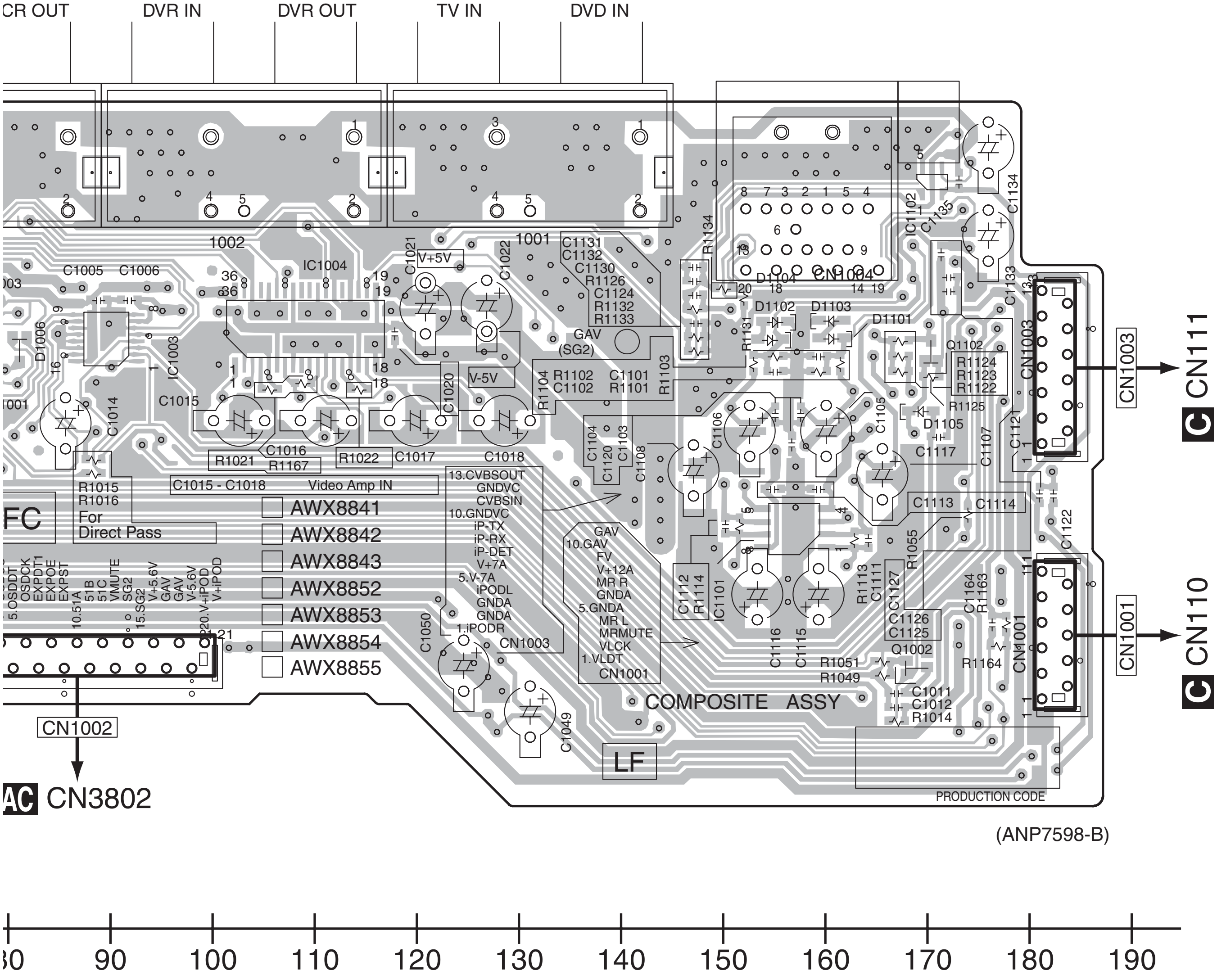
11.6 COMPOSITE ASSY

SIDE A

H COMPOSITE ASSY

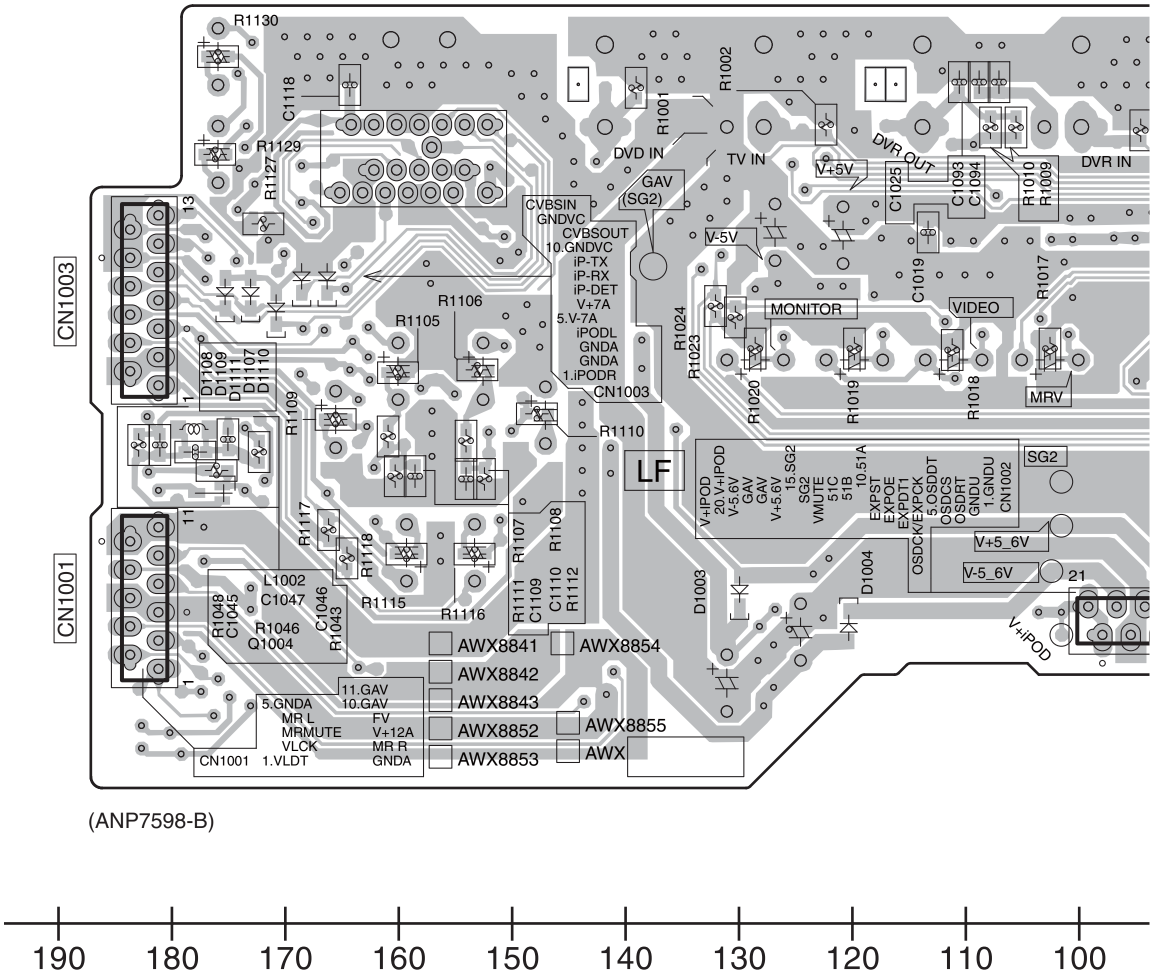

MONI OUT
MR OUT
VCR IN
VCR OUT
DV
MR Lch
MR Rch
230
220
210
200
190
180
170
160
150
Y
0
10
20
30
40
50
60
70
80
90
X
JA1005
JA1004
JA1006
1003
R1160
C1153
C1155
R1155
R1156
R1159
C1151
C1156
C1154
IC1151
C1152
C1160
C1151 C1152
MR EVOL IN
C1159
C1161
C1162
D1112
L1003
R1040
R1041
C1041
C1040
X1001
VOS2
VOS1
C1028
C1027
C1029
R1034
C1031
C1032
C1033
IC1006
C1030
R1039
C1042
R1042
C1043
IC1002
IC1001
C1004
C1002
C1003
C1001
C1005
C1006
D1006
C1014
R1015
R1016
For
Direct Pass
CMKM-P3X
ICT
FC
[[G]]
A30C5/C7
CN1002
1.GNDU
GNDU
OSDRT
OSDCS
5.OSDDT
OSDCK
EXPDT1
EXPOE
EXPST
10.51A
51B
51C
VMUTE
SG2
15.SG2
V+5.6V
CN1002
AC CN3802

SIDE A


CR OUT
DVR IN
DVR OUT
TV IN
DVD IN
1002
1001
IC1004
V+5V
V-5V
C1005
C1006
C1021
C1022
C1131
C1132
C1130
R1126
C1124
R1132
R1133
R1134
IC1102
C1135
C1134
C1133
CN1004
D1104
D1102
D1103
D1101
Q1102
R1124
R1123
R1122
R1125
D1105
CN1003
CN1003
CN111
C
D1006
IC1003
C1014
C1015
C1016
R1021
R1167
R1022
C1017
C1018
C1020
R1104
R1102
C1102
C1101
R1101
R1103
GAV
(SG2)
R1131
C1106
C1105
C1117
C1107
C1121
C1104
C1120
C1103
C1108
R1015
R1016
For
Direct Pass
C1015 - C1018
Video Amp IN
FC
AWX8841
AWX8842
AWX8843
AWX8852
AWX8853
AWX8854
AWX8855
13.CVBSOUT
GNDVC
CVBSIN
10.GNDVC
iP-TX
iP-RX
iP-DET
V+7A
5.V-7A
iPODL
GNDA
GNDA
1.iPODR
CN1003
GAV
10.GAV
FV
V+12A
MR R
GNDA
5.GNDA
MR L
MRMUTE
VLCK
1.VLDT
CN1001
C1113
C1114
C1122
C1112
R1114
IC1101
C1116
C1115
R1113
C1111
C1127
R1055
C1126
C1125
Q1002
R1051
R1049
C1011
C1012
R1014
C1164
R1163
R1164
CN1001
CN1001
CN110
C
5.OSDDT
OSDCK
EXPDT1
EXPOE
EXPST
10.51A
51B
51C
VMUTE
SG2
15.SG2
V+5.6V
GAV
GAV
V+5.6V
20.V+iPOD
V+iPOD
CN1002
AC
CN3802
C1050
C1049
COMPOSITE ASSY
LF
PRODUCTION CODE
(ANP7598-B)
80
90
100
110
120
130
140
150
160
170
180
190

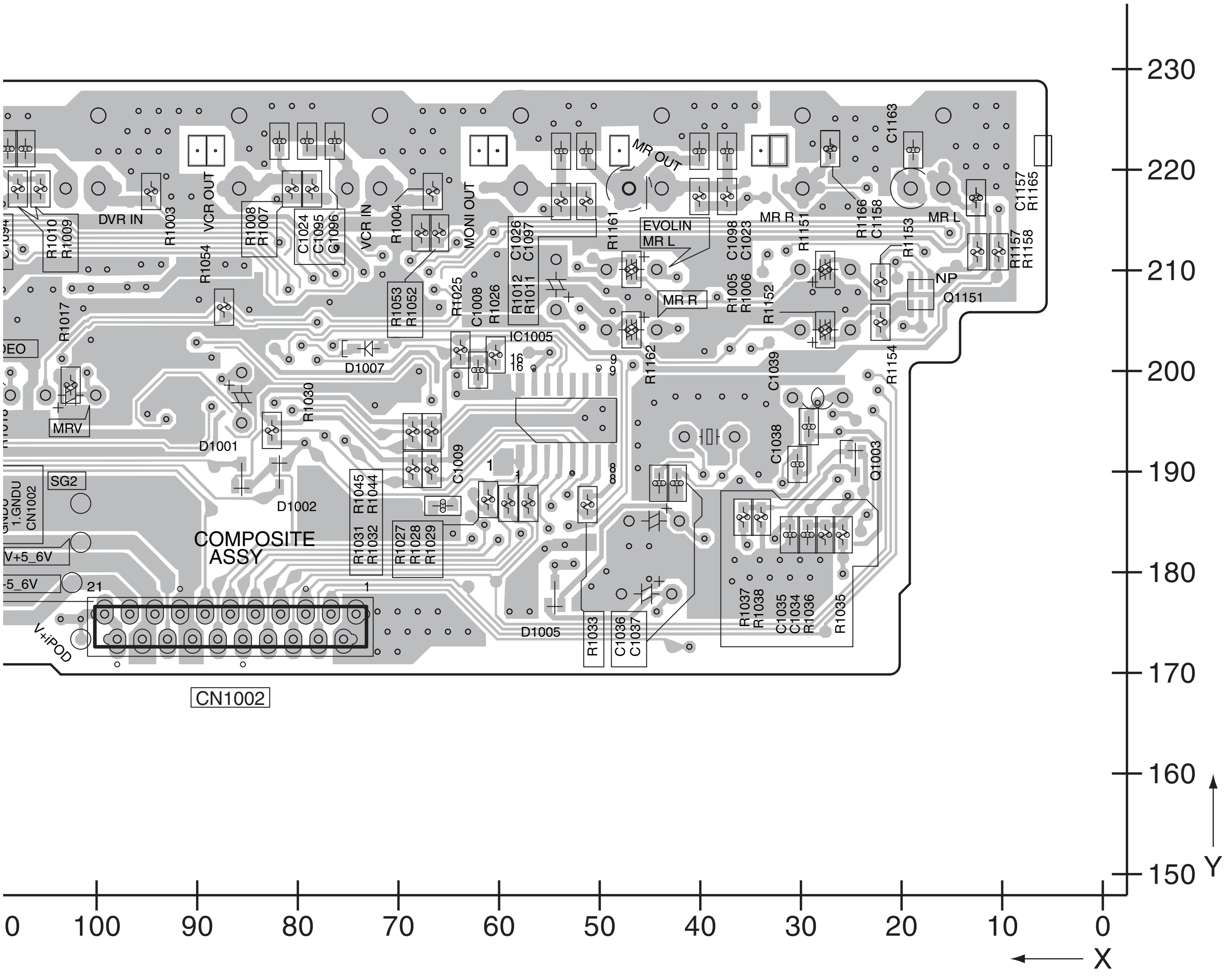
SIDE B

H COMPOSITE ASSY


R1130
C1118
R1129
R1127
R1001
R1002
DVD IN
TV IN
GAV
(SG2)
V+5V
DVR OUT
R1025
C1093
C1094
R1010
R1009
DVR IN
CVBSIN
GNDVC
CVBSOUT
10.GNDVC
iP-TX
iP-RX
iP-DET
V+7A
5.V-7A
iPODL
GNDA
GNDA
1.iPODR
CN1003
V-5V
C1025
C1019
R1017
MONITOR
VIDEO
R1024
R1023
R1020
R1019
R1018
MRV
13
CN1003
1
D1108
D1109
D1111
D1107
D1110
R1106
R1105
R1109
R1110
LF
V+IPOD
20.V+IPOD
V-5.6V
GAV
GAV
V+5.6V
15.SG2
SG2
VMUTE
51C
51B
10.51A
EXPST
EXPOE
EXPDT1
OSDCK/EXPCK
5.OSDDT
OSDCS
OSDRT
GNDU
1.GNDU
CN1002
SG2
V+5_6V
V-5_6V
21
V+iPOD
11
CN1001
1
R1117
R1118
R1107
R1108
L1002
C1047
R1048
C1045
R1046
Q1004
C1046
R1043
R1115
R1116
R1111
C1109
C1110
R1112
D1003
D1004
AWX8841
AWX8854
AWX8842
AWX8843
AWX8852
AWX8855
AWX8853
AWX
5.GNDA
MR L
MRMUTE
VLCK
CN1001
1.VLDT
11.GAV
10.GAV
FV
V+12A
MR R
GNDA
190
180
170
160
150
140
130
120
110
100

(ANP7598-B)

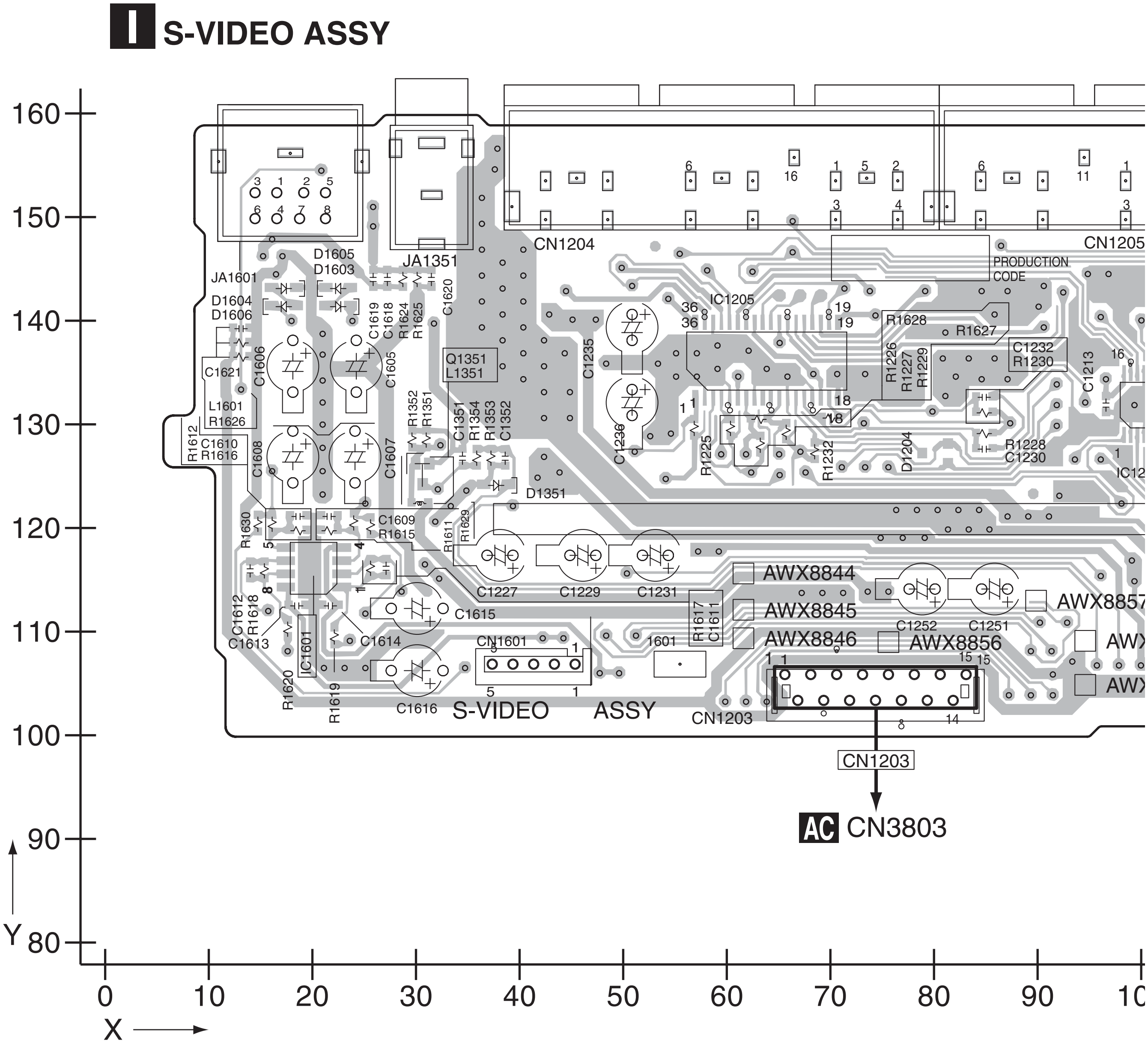
SIDE B



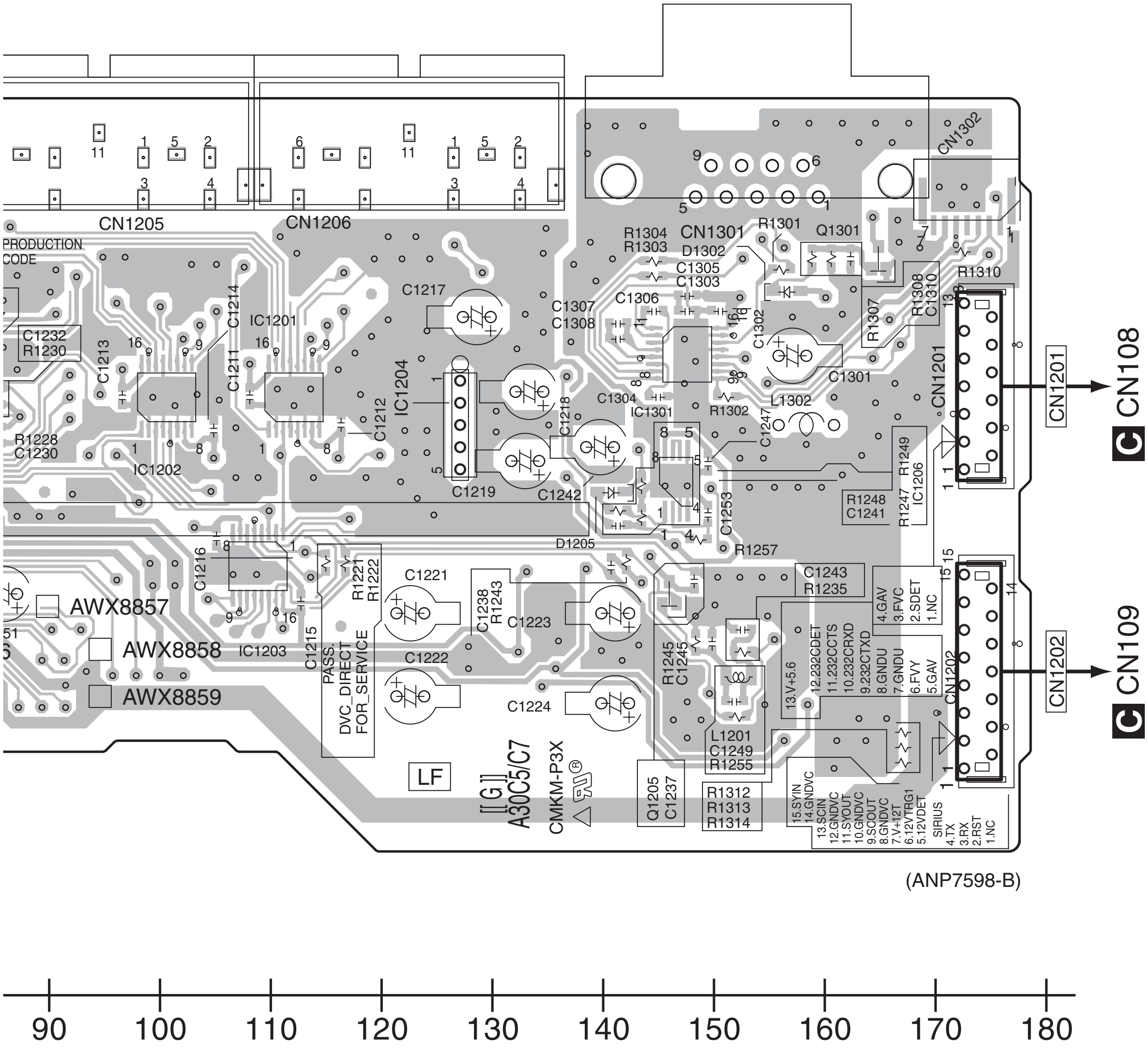
MR OUT
DVR IN
VCR OUT
VCR IN
MONI OUT
EVOLIN
MR L
MR R
MR R
MR L
NP
Q1151
C1163
C1157
R1165
R1157
R1158
R1166
C1158
R1153
R1151
C1098
C1023
R1005
R1006
R1152
R1154
R1161
R1162
C1026
C1097
R1012
R1011
C1008
R1026
R1025
R1053
R1052
R1004
C1024
C1095
C1096
R1008
R1007
R1054
R1003
R1010
R1009
R1017
IC1005
D1007
D1001
D1002
D1005
R1030
C1009
R1045
R1044
R1031
R1032
R1027
R1028
R1029
C1039
C1038
Q1003
R1037
R1038
C1035
C1034
R1036
R1035
R1033
C1036
C1037
MRV
SG2
1.GNDU
CN1002
V+5_6V
-5_6V
V+iPOD
21
1
16
9
8
COMPOSITE
ASSY
CN1002
230
220
210
200
190
180
170
160
150
Y
0
100
90
80
70
60
50
40
30
20
10
0
X

11.7 S-VIDEO ASSY

SIDE A

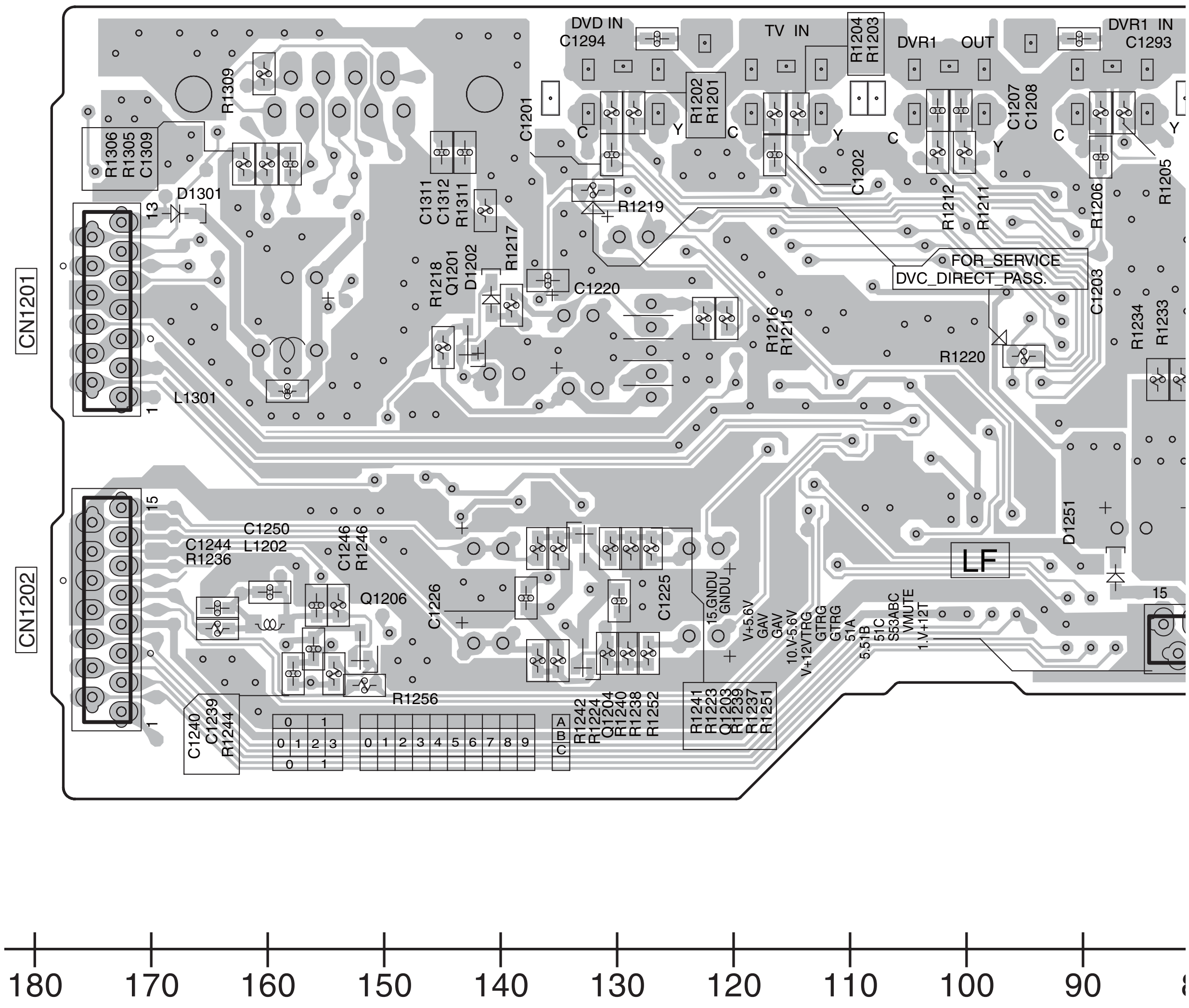

I S-VIDEO ASSY
160
150
140
130
120
110
100
90
Y 80
0
10
20
30
40
50
60
70
80
90
10
X
JA1601
JA1351
D1605
D1603
D1604
D1606
C1621
L1601
R1626
R1612
C1610
R1616
C1606
C1608
C1605
C1607
C1619
C1618
R1624
R1625
C1620
Q1351
L1351
R1352
R1351
C1351
R1354
R1353
C1352
D1351
CN1204
C1235
C1236
IC1205
R1225
R1232
D1204
R1628
R1627
R1226
R1227
R1229
C1232
R1230
C1213
R1228
C1230
CN1205
PRODUCTION CODE
R1630
C1609
R1615
R1611
R1629
C1227
C1229
C1231
C1612
R1618
C1613
IC1601
C1615
C1614
R1620
R1619
C1616
CN1601
1601
R1617
C1611
AWX8844
AWX8845
AWX8846
AWX8856
AWX8857
C1252
C1251
CN1203
S-VIDEO ASSY
CN1203
AC CN3803

SIDE A


CN1205
CN1206
PRODUCTION
CODE
C1232
R1230
C1213
C1214
C1211
IC1201
IC1202
R1228
C1230
C1212
IC1204
C1217
C1218
C1219
C1242
C1307
C1308
C1306
C1304
IC1301
R1304
R1303
CN1301
D1302
C1305
C1303
R1301
Q1301
CN1302
R1310
R1307
R1308
C1310
C1302
C1301
R1302
L1302
C1247
CN1201
CN1201
CN108
C1253
R1249
IC1206
R1248
C1241
R1247
R1257
D1205
C1216
IC1203
C1215
R1221
R1222
C1221
C1222
C1238
R1243
C1223
C1224
C1243
R1235
R1245
C1245
L1201
C1249
R1255
Q1205
C1237
R1312
R1313
R1314
AWX8857
AWX8858
AWX8859
PASS.
DVC_DIRECT
FOR_SERVICE
LF
[[G]]
A30C5/C7
CMKM-P3X
CN1202
CN1202
CN109
4.GAV
3.FVC
2.SDET
1.NC
13.V+5.6
12.232CDET
11.232CCTS
10.232CRXD
9.232CTXD
8.GNDU
7.GNDU
6.FVY
5.GAV
15.SYIN
14.GNDVC
13.SCIN
12.GNDVC
11.SYOUT
10.GNDVC
9.SCOUT
8.GNDVC
7.V+12T
6.12VTRG1
5.12VDET
SIRIUS
4.TX
3.RX
2.RST
1.NC
(ANP7598-B)
90
100
110
120
130
140
150
160
170
180

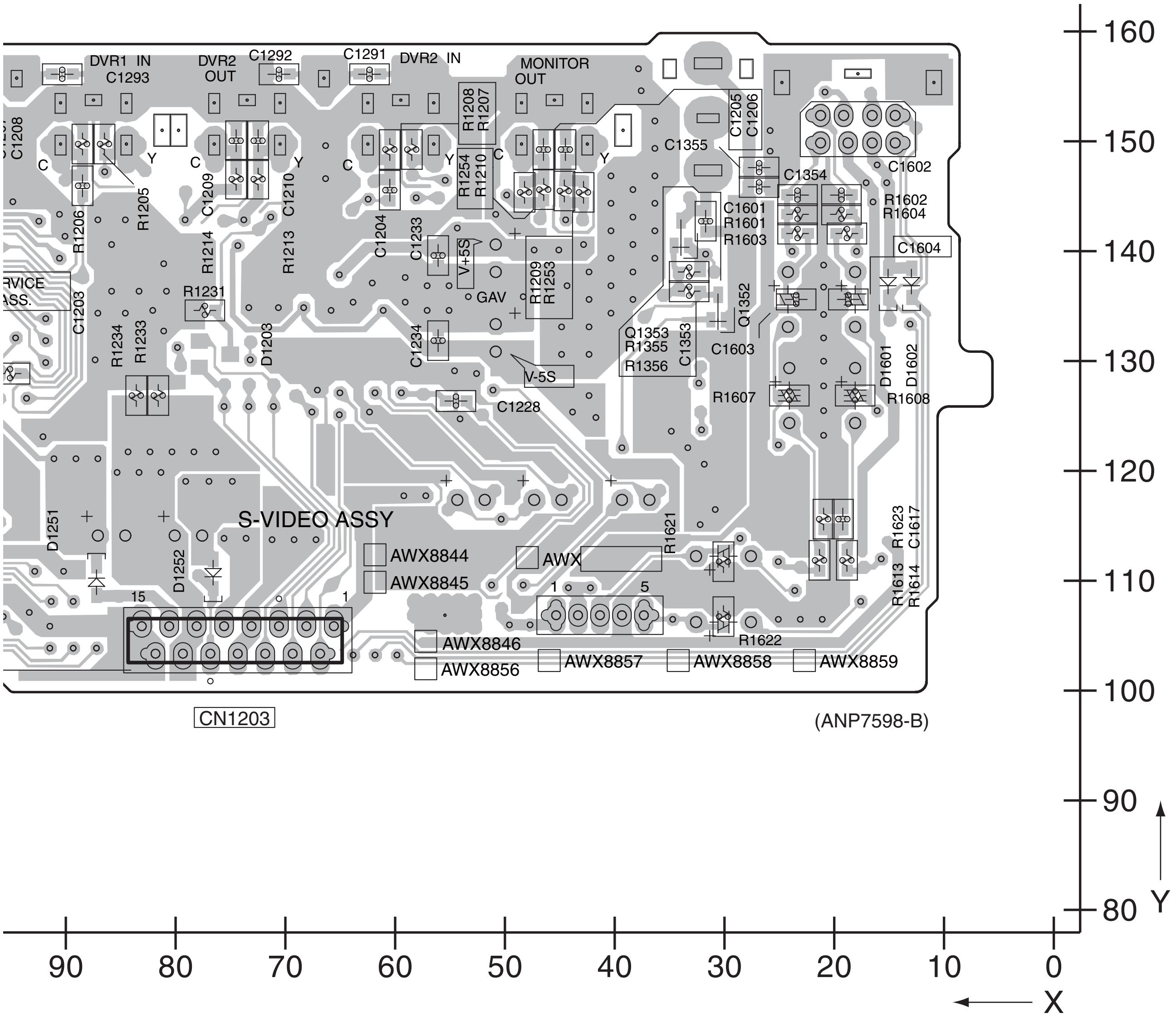
SIDE B

I S-VIDEO ASSY


DVD IN
C1294
TV IN
R1204
R1203
DVR1 OUT
DVR1 IN
C1293
R1309
R1202
R1201
C1201
C1207
C1208
C
Y
R1306
R1305
C1309
D1301
13
R1205
C1202
R1212
R1211
R1206
C1311
C1312
R1311
R1219
FOR_SERVICE
DVC_DIRECT_PASS.
R1218
Q1201
D1202
R1217
C1220
C1203
CN1201
R1216
R1215
R1220
R1234
R1233
L1301
1
15
CN1202
C1250
C1244
L1202
R1236
C1246
R1246
LF
D1251
Q1206
C1226
C1225
15,GNDU
GNDU
V+5.6V
GAV
GAV
10,V-5.6V
V+12VTRG
GTRG
GTRG
51A
5,51B
51C
S53ABC
VMUTE
1,V+12T
R1256
C1240
C1239
R1244
0 1
0 1 2 3
0 1
0 1 2 3 4 5 6 7 8 9
A
B
C
R1242
R1224
Q1204
R1240
R1238
R1252
R1241
R1223
Q1203
R1239
R1237
R1251
180
170
160
150
140
130
120
110
100
90

I

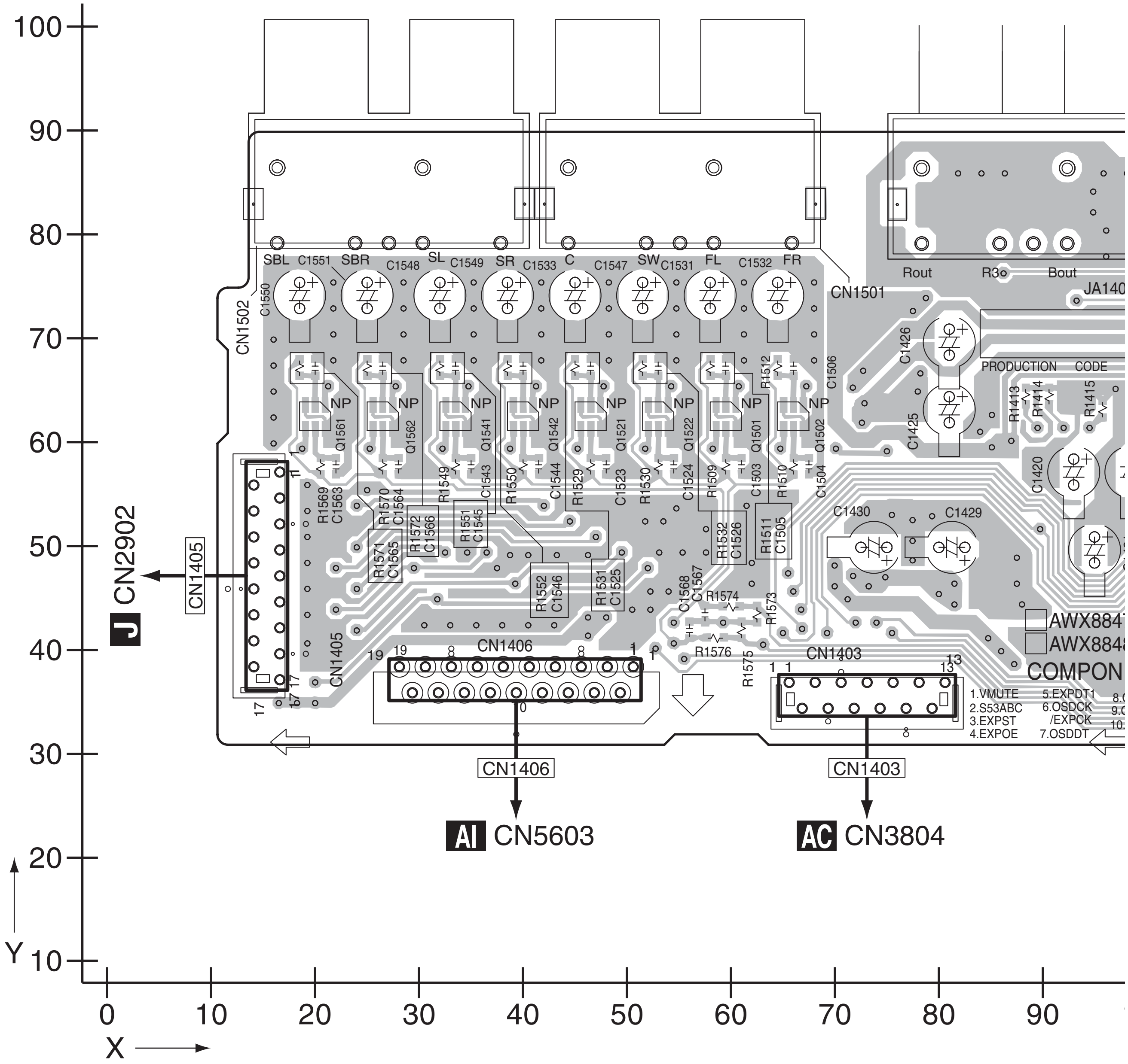
SIDE B


DVR1 IN
C1293
DVR2 OUT
C1292
C1291
DVR2 IN
MONITOR OUT
C1208
C
Y
R1205
R1206
C1209
C1210
R1214
R1213
C1204
C1233
V+5S
R1208
R1207
R1254
R1210
R1209
R1253
GAV
C1205
C1206
C1355
C1354
C1602
R1602
R1604
C1601
R1601
R1603
C1604
Q1352
Q1353
R1355
R1356
C1353
C1603
D1601
D1602
R1607
R1608
RVICE ASS.
C1203
R1231
R1234
R1233
D1203
C1234
V-5S
C1228
S-VIDEO ASSY
D1251
D1252
15
1
AWX8844
AWX8845
AWX
5
R1621
R1623
C1617
R1613
R1614
R1622
AWX8846
AWX8856
AWX8857
AWX8858
AWX8859
CN1203
(ANP7598-B)
160
150
140
130
120
110
100
90
80
Y
90
80
70
60
50
40
30
20
10
0
X

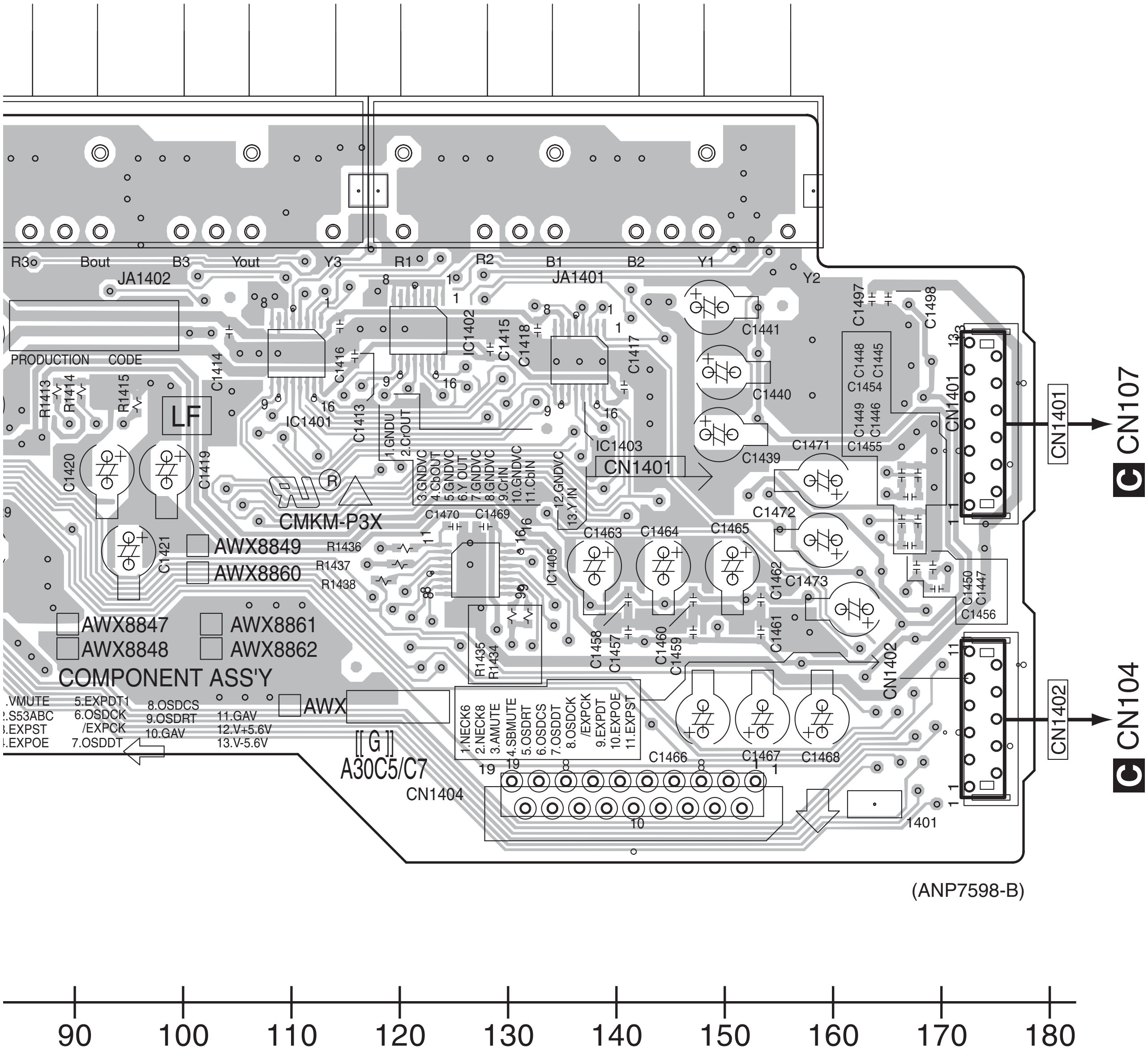
11.8 COMPONENT ASSY

SIDE A

K COMPONENT ASSY


100
90
80
70
60
50
40
30
20
10
0
10
20
30
40
50
60
70
80
90
Y
X
SBL
C1551
SBR
C1548
SL
C1549
SR
C1533
C
C1547
SW
C1531
FL
C1532
FR
C1550
CN1502
CN1501
Rout
R3
Bout
JA140
C1426
C1425
PRODUCTION CODE
R1413
R1414
R1415
C1506
NP
Q1561
Q1562
Q1541
Q1542
Q1521
Q1522
Q1501
Q1502
R1512
R1569
C1563
R1570
C1564
R1549
C1543
R1550
C1544
R1529
C1523
R1530
C1524
R1509
C1503
R1510
C1504
C1420
C1430
C1429
R1572
C1566
R1551
C1545
R1571
C1565
R1552
C1546
R1531
C1525
R1532
C1526
R1511
C1505
C1568
C1567
R1574
R1573
R1576
R1575
CN1405
CN1406
CN1403
19
8
1
10
13
17
AWX884
AWX884
COMPON
1.VMUTE
2.S53ABC
3.EXPST
4.EXPOE
5.EXPDT1
6.OSDCK
/EXPCK
7.OSDDT
CN1405
J CN2902
CN1406
AI CN5603
CN1403
AC CN3804

SIDE A


R3
Bout
B3
Yout
Y3
R1
R2
B1
B2
Y1
Y2
JA1402
JA1401
PRODUCTION CODE
LF
IC1401
IC1402
IC1403
IC1405
C1413
C1414
C1415
C1416
C1417
C1418
C1419
C1420
C1421
C1439
C1440
C1441
C1445
C1446
C1447
C1448
C1449
C1450
C1454
C1455
C1456
C1457
C1458
C1459
C1460
C1461
C1462
C1463
C1464
C1465
C1466
C1467
C1468
C1469
C1470
C1471
C1472
C1473
C1497
C1498
R1413
R1414
R1415
R1434
R1435
R1436
R1437
R1438
1.GNDU
2.CrOUT
3.GNDVC
4.CbOUT
5.GNDVC
6.Y OUT
7.GNDVC
8.GNDVC
9.CrIN
10.GND/C
11.CbIN
12.GNDVC
13.Y IN
CN1401
CMKM-P3X
AWX8849
AWX8860
AWX8847
AWX8848
AWX8861
AWX8862
COMPONENT ASS'Y
AWX
.VMUTE
2.S53ABC
3.EXPST
4.EXPOE
5.EXPDT1
6.OSDCK
/EXPCK
7.OSDDT
8.OSDCS
9.OSDRT
10.GAV
11.GAV
12.V+5.6V
13.V-5.6V
[[G]]
A30C5/C7
CN1404
1.NECK6
2.NECK8
3.AMUTE
4.SBMUTE
5.OSDRT
6.OSDCS
7.OSDDT
8.OSDCK
/EXPCK
9.EXPDT
10.EXPOE
11.EXPST
CN1402
1401
CN1401
CN107
CN1402
CN104
C
C
90
100
110
120
130
140
150
160
170
180

(ANP7598-B)

SIDE B

A

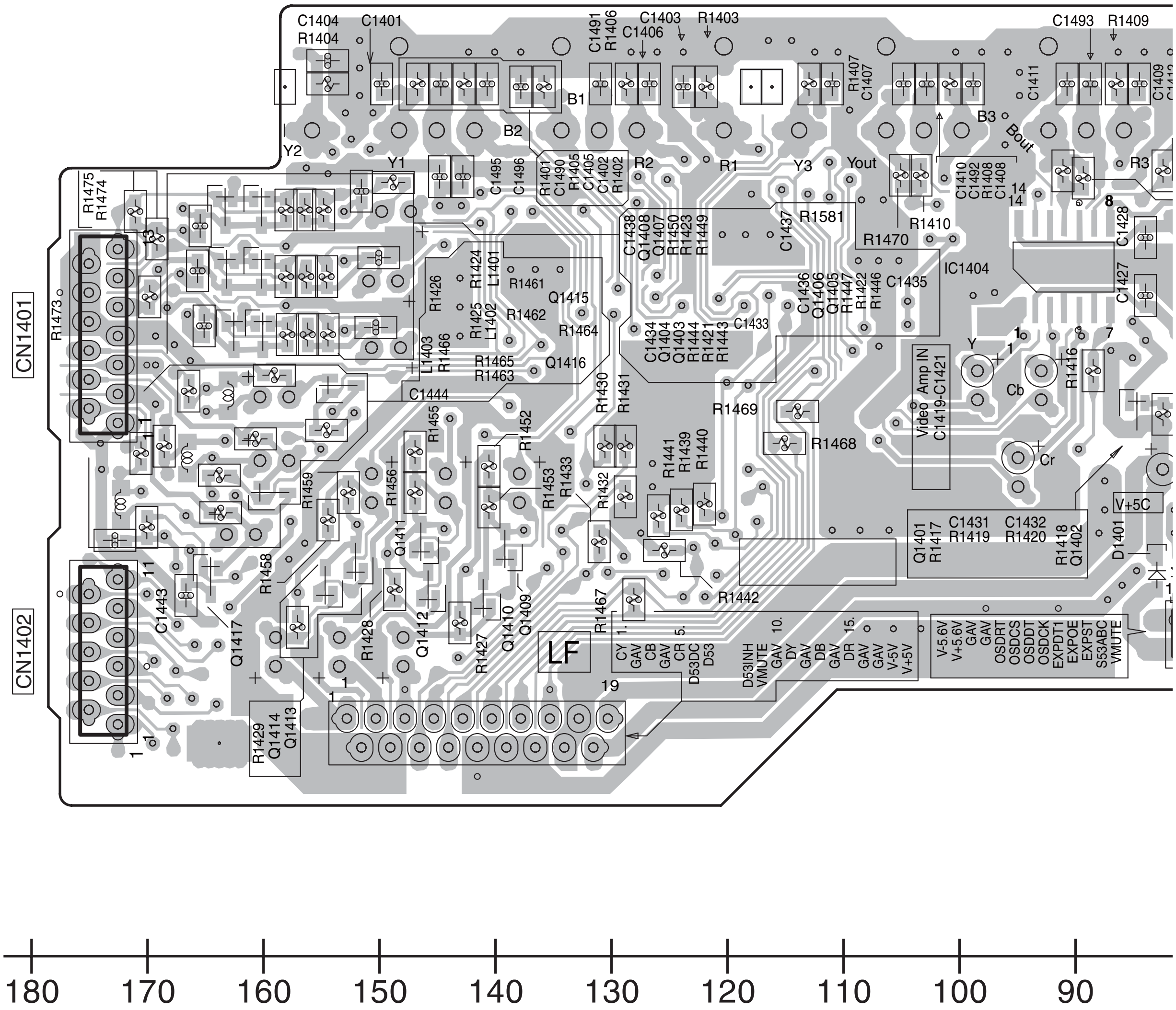
B

K COMPONENT ASSY

C

D

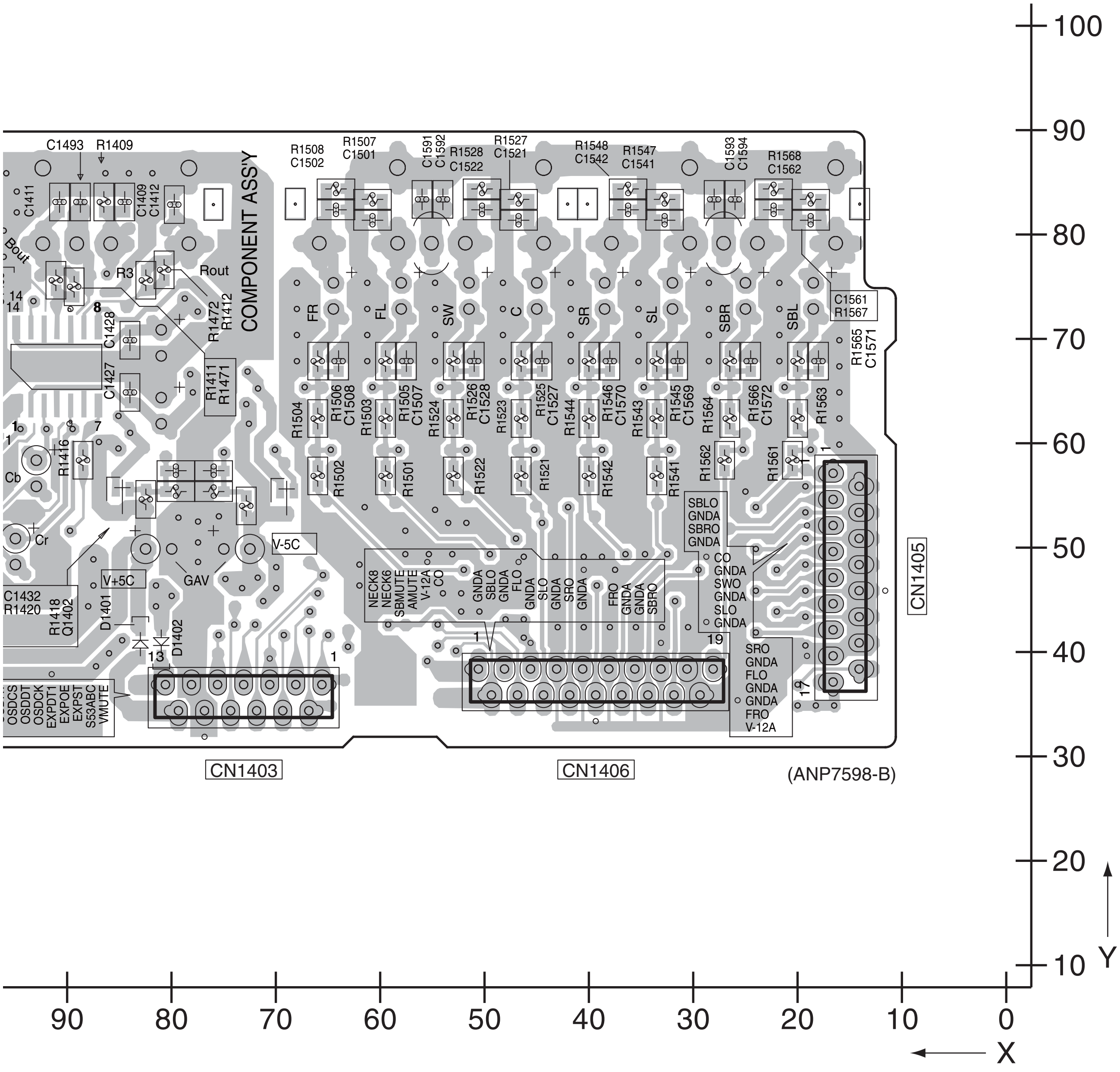
E


C1404
R1404
C1401
C1491
R1406
C1403
C1406
R1403
C1493
R1409
C1409
R1407
C1407
C1411
B1
B2
B3
Bout
Y2
Y1
Y3
Yout
R1
R2
R3
R1475
R1474
13
C1495
C1496
R1401
C1490
R1405
C1405
C1402
R1402
C1410
C1492
R1408
C1408
14
8
R1410
C1428
C1438
Q1408
Q1407
R1450
R1423
R1449
C1437
R1581
R1470
IC1404
C1427
R1473
CN1401
R1426
R1424
L1401
R1461
Q1415
R1425
L1402
R1462
R1464
C1436
Q1406
Q1405
R1447
R1422
R1446
C1435
C1434
Q1404
Q1403
R1444
R1421
R1443
C1433
L1403
R1466
R1465
R1463
Q1416
C1444
Y
Cb
Cr
7
R1416
Video Amp IN
C1419-C1421
R1430
R1431
R1469
R1468
R1455
R1452
R1441
R1439
R1440
R1459
R1456
R1453
R1433
R1432
Q1411
V+5C
Q1401
R1417
C1431
R1419
C1432
R1420
R1418
Q1402
D1401
11
C1443
R1458
Q1417
R1428
Q1412
R1427
Q1410
Q1409
R1467
R1442
CN1402
LF
CY
GAV
CB
GAV
CR
D53DC
D53
1.
5.
D53INH
VMUTE
GAV
DY
GAV
DB
GAV
DR
GAV
GAV
V-5V
V+5V
10.
15.
V-5.6V
V+5.6V
GAV
GAV
OSDRT
OSDCS
OSDDT
OSDCK
EXPDT1
EXPOE
EXPST
S53ABC
VMUTE
1
19
R1429
Q1414
Q1413
180
170
160
150
140
130
120
110
100
90

F

K

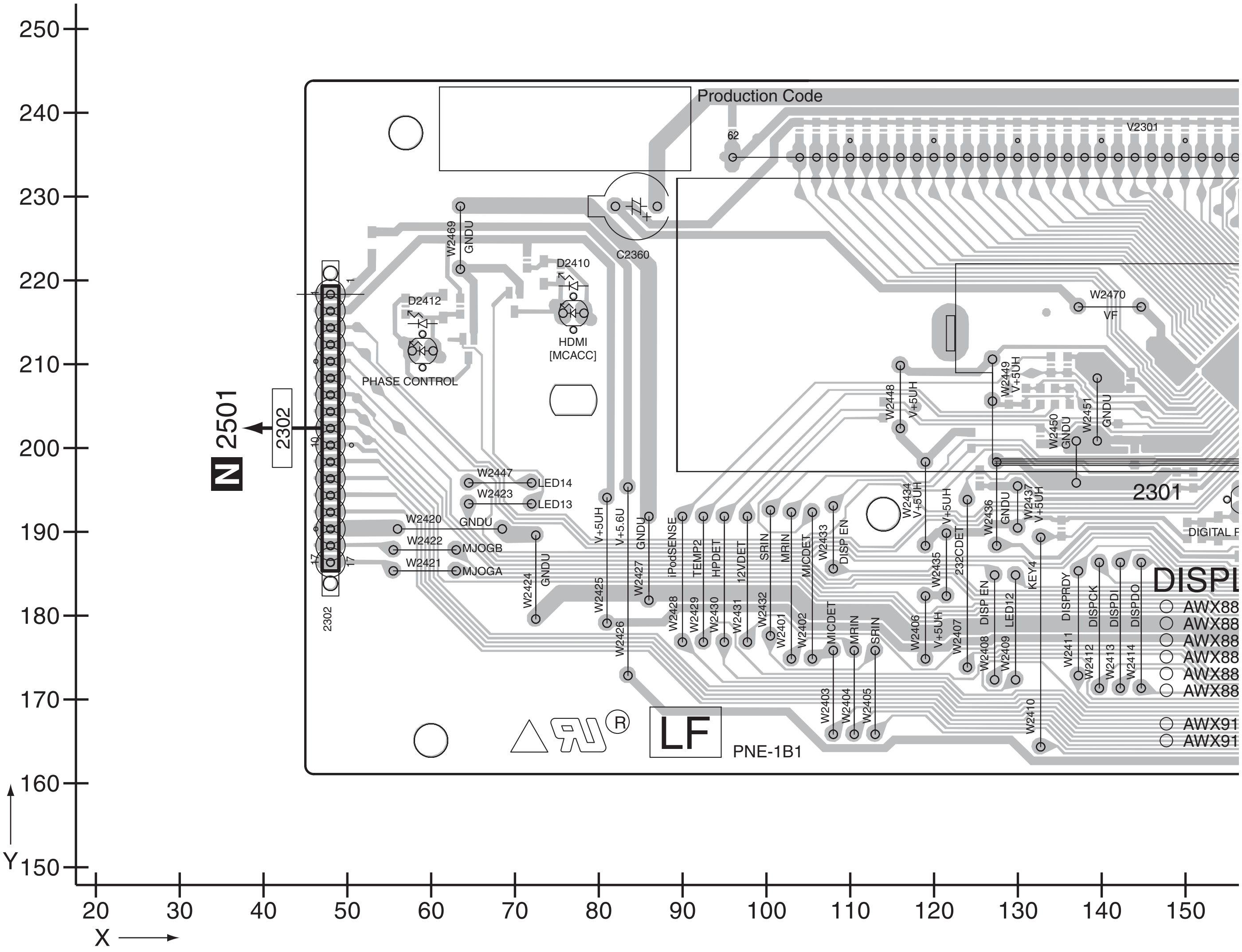
SIDE B


C1493
R1409
C1411
C1409
C1412
Bout
R3
Rout
R1472
R1412
COMPONENT ASS'Y
C1428
C1427
R1411
R1471
14
14
8
1
1
3
7
R1416
Cb
Cr
GAV
V+5C
V-5C
C1432
R1420
R1418
Q1402
D1401
D1402
13
1
OSDCS
OSDDT
OSDCK
EXPDT1
EXPOE
EXPST
S53ABC
VMUTE
R1508
C1502
R1507
C1501
C1591
C1592
R1528
C1522
R1527
C1521
R1548
C1542
R1547
C1541
C1593
C1594
R1568
C1562
FR
FL
SW
C
SR
SL
SBR
SBL
C1561
R1567
R1565
C1571
R1504
R1506
C1508
R1503
R1505
C1507
R1524
R1526
C1528
R1523
R1525
C1527
R1544
R1546
C1570
R1543
R1545
C1569
R1564
R1566
C1572
R1563
R1502
R1501
R1522
R1521
R1542
R1541
R1562
R1561
SBLO
GNDA
SBRO
GNDA
NECK8
NECK6
SBMUTE
AMUTE
V-12A
CO
GNDA
SBLO
GNDA
FLO
GNDA
SLO
GNDA
SRO
GNDA
FRO
GNDA
GNDA
SBRO
CO
GNDA
SWO
GNDA
SLO
GNDA
19
1
SRO
GNDA
FLO
GNDA
GNDA
FRO
V-12A
1
17
19
CN1405
CN1403
CN1406
(ANP7598-B)
100
90
80
70
60
50
40
30
20
10
Y
90
80
70
60
50
40
30
20
10
0
X

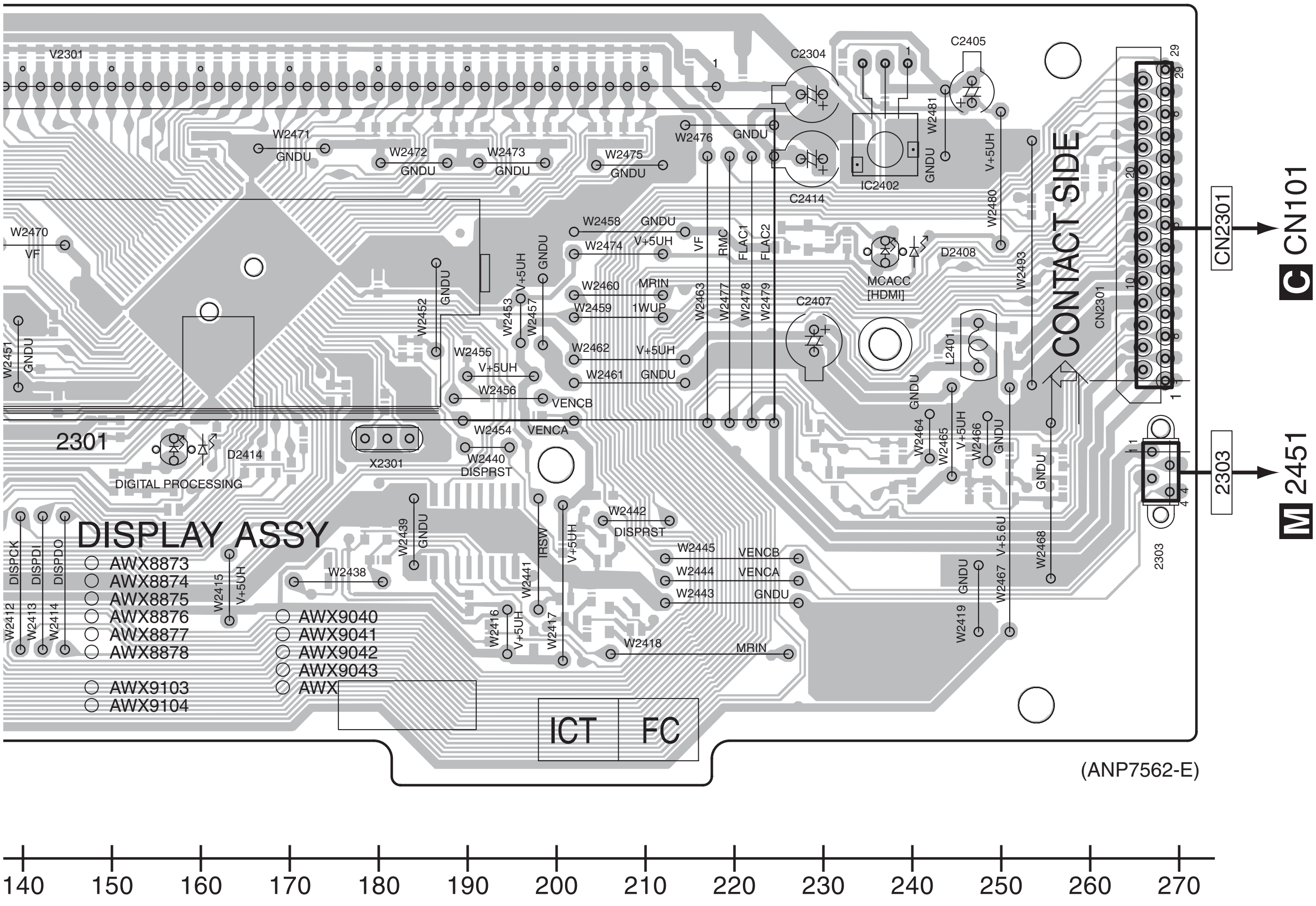
11.9 DISPLAY ASSY

SIDE A

L DISPLAY ASSY

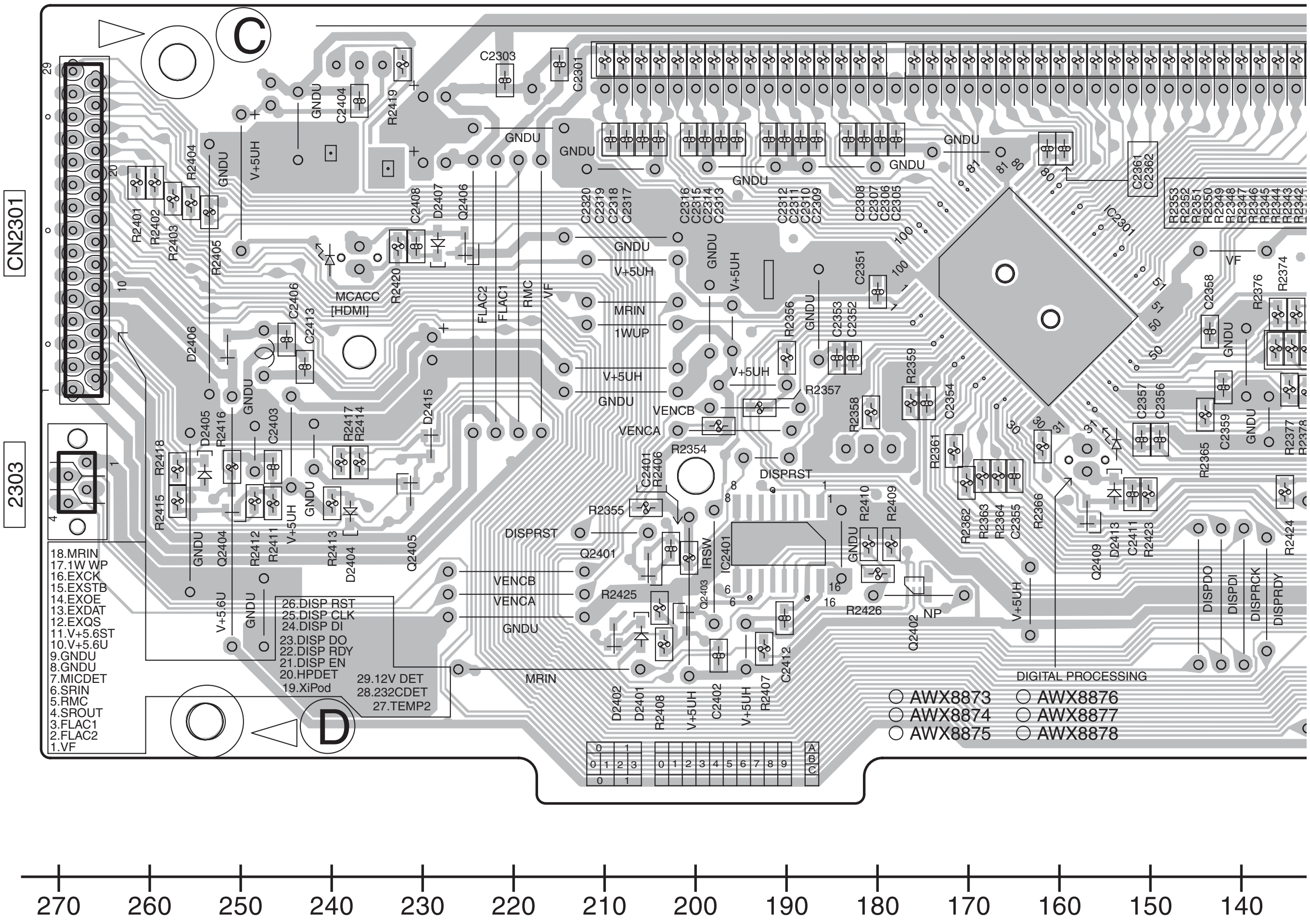

250
240
230
220
210
200
190
180
170
160
150
Y
20
30
40
50
60
70
80
90
100
110
120
130
140
150
X
N 2501
2302
Production Code
62
V2301
W2469
GNDU
C2360
D2410
D2412
HDMI
[MCACC]
PHASE CONTROL
W2470
VF
W2448
V+5UH
W2449
V+5UH
W2450
GNDU
W2451
GNDU
2301
DIGITAL
W2447
LED14
W2423
LED13
W2420
GNDU
W2422
MJOGB
W2421
MJOGA
W2424
GNDU
V+5UH
V+5.6U
GNDU
W2425
W2426
W2427
iPodSENSE
TEMP2
HPDET
12VDET
SRIN
MRIN
MICDET
W2433
DISP EN
W2434
V+5UH
V+5UH
W2435
232CDET
W2436
GNDU
W2437
V+5UH
KEY4
W2428
W2429
W2430
W2431
W2432
W2401
W2402
MICDET
MRIN
SRIN
W2406
V+5UH
W2407
DISP EN
LED12
W2408
W2409
DISPRDY
DISPCK
DISPDI
DISPDO
W2411
W2412
W2413
W2414
DISPL
AWX88
AWX88
AWX88
AWX88
AWX88
AWX88
AWX91
AWX91
W2403
W2404
W2405
W2410
LF
PNE-1B1
2302
1
17

SIDE A

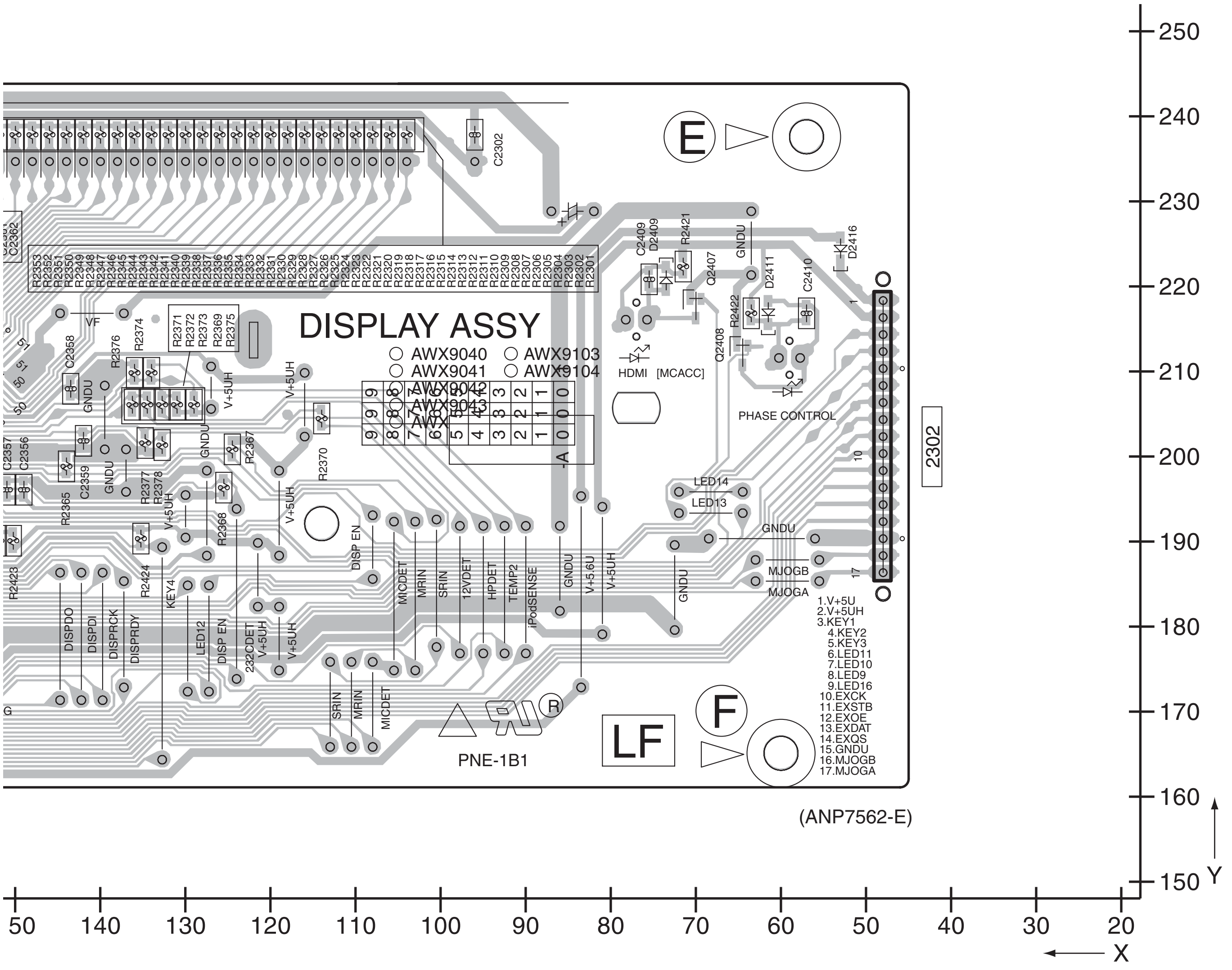

V2301
C2304
C2405
IC2402
C2414
W2471
GNDU
W2472
W2473
W2475
W2476
W2481
V+5UH
W2480
W2470
VF
W2458
W2474
V+5UH
RMC
FLAC1
FLAC2
W2460
MRIN
W2459
1WUP
W2463
W2477
W2478
W2479
D2408
MCACC
[HDMI]
C2407
W2493
CONTACT SIDE
CN2301
CN2301
C CN101
W2452
W2453
W2457
W2455
W2456
VENCB
W2462
W2461
L2401
W2451
2301
D2414
DIGITAL PROCESSING
X2301
W2454
VENCA
W2440
DISPRST
W2464
W2465
W2466
V+5.6U
W2468
2303
M 2451
DISPLAY ASSY
○ AWX8873
○ AWX8874
○ AWX8875
○ AWX8876
○ AWX8877
○ AWX8878
○ AWX9103
○ AWX9104
○ AWX9040
○ AWX9041
○ AWX9042
○ AWX9043
○ AWX
DISPCK
DISPDI
DISPDO
W2412
W2413
W2414
W2415
W2439
W2438
IRSW
W2441
W2442
W2445
W2444
W2443
W2416
W2417
W2418
W2419
W2467
ICT
FC
(ANP7562-E)
140
150
160
170
180
190
200
210
220
230
240
250
260
270

SIDE B

L DISPLAY ASSY


C
D
CN2301
2303
29
20
10
1
4
C2303
C2301
C2404
R2419
GNDU
V+5UH
R2401
R2402
R2403
R2404
R2405
C2408
D2407
Q2406
R2420
MCACC
[HDMI]
C2406
C2413
D2406
FLAC2
FLAC1
RMC
VF
D2405
R2416
R2418
R2415
C2403
R2417
R2414
D2415
Q2404
R2412
R2411
R2413
D2404
Q2405
V+5.6U
C2320
C2319
C2318
C2317
C2316
C2315
C2314
C2313
C2312
C2311
C2310
C2309
C2308
C2307
C2306
C2305
MRIN
1WUP
VENCB
VENCA
R2354
R2356
C2353
C2352
C2351
R2357
R2358
R2359
C2354
DISPRST
C2401
R2406
R2355
Q2401
R2425
IRSW
Q2403
IC2401
R2410
R2409
R2426
NP
Q2402
D2402
D2401
R2408
C2402
R2407
C2412
IC2301
C2361
C2362
R2353
R2352
R2351
R2350
R2349
R2348
R2347
R2346
R2345
R2344
R2343
R2342
R2376
R2374
C2358
C2357
C2356
C2359
R2365
R2377
R2378
R2361
R2362
R2363
R2364
C2355
R2366
Q2409
D2413
C2411
R2423
R2424
DISPDO
DISPDI
DISPRCK
DISPRDY
DIGITAL PROCESSING
○ AWX8873
○ AWX8874
○ AWX8875
○ AWX8876
○ AWX8877
○ AWX8878
18.MRIN
17.1W WP
16.EXCK
15.EXSTB
14.EXOE
13.EXDAT
12.EXQS
11.V+5.6ST
10.V+5.6U
9.GNDU
8.GNDU
7.MICDET
6.SRIN
5.RMC
4.SROUT
3.FLAC1
2.FLAC2
1.VF
26.DISP RST
25.DISP CLK
24.DISP DI
23.DISP DO
22.DISP RDY
21.DISP EN
20.HPDET
19.XiPod
29.12V DET
28.232CDET
27.TEMP2
100
81
80
51
50
31
30
270
260
250
240
230
220
210
200
190
180
170
160
150
140

SIDE B

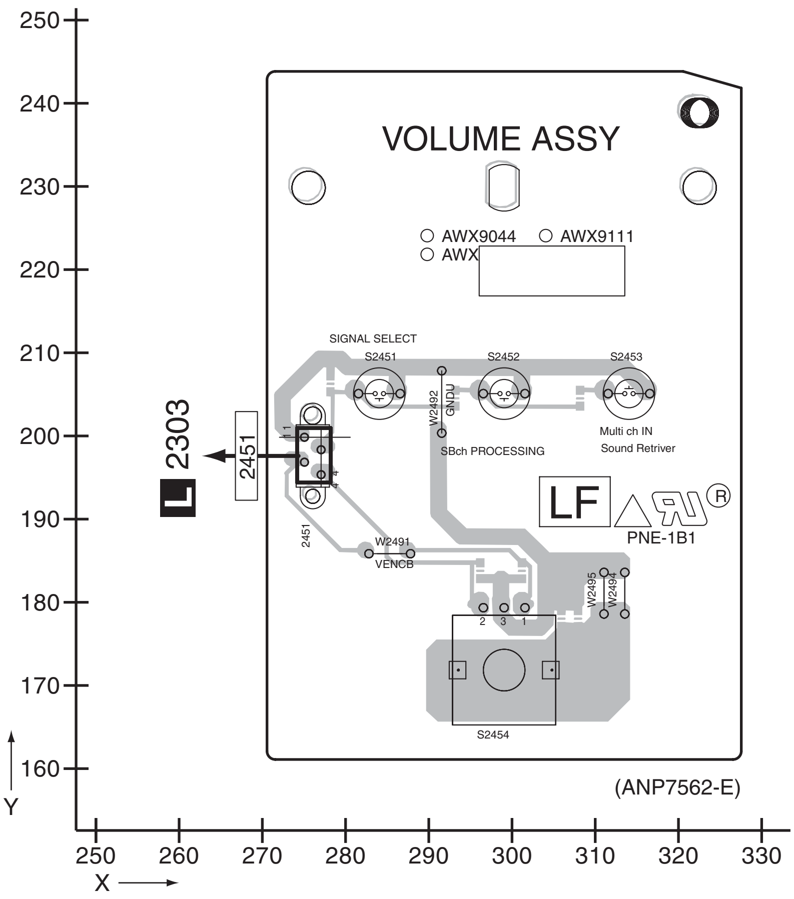

E
F
DISPLAY ASSY
○ AWX9040 ○ AWX9103
○ AWX9041 ○ AWX9104
○ AWX9042
○ AWX9043
C2302
C2409
D2409
R2421
Q2407
GNDU
D2411
C2410
D2416
R2422
Q2408
HDMI [MCACC]
PHASE CONTROL
2302
LED14
LED13
GNDU
MJOGB
MJOGA
1.V+5U
2.V+5UH
3.KEY1
4.KEY2
5.KEY3
6.LED11
7.LED10
8.LED9
9.LED16
10.EXCK
11.EXSTB
12.EXOE
13.EXDAT
14.EXQS
15.GNDU
16.MJOGB
17.MJOGA
VF
C2358
R2376
R2374
R2371
R2372
R2373
R2369
R2375
V+5UH
GNDU
R2367
R2370
C2357
C2356
C2359
R2365
R2377
R2378
V+5UH
R2368
R2423
R2424
KEY4
DISP EN
MICDET
MRIN
SRIN
12VDET
HPDET
TEMP2
iPodSENSE
GNDU
V+5.6U
V+5UH
DISPDO
DISPDI
DISPRCK
DISPRDY
LED12
DISP EN
232CDET
V+5UH
V+5UH
SRIN
MRIN
MICDET
PNE-1B1
LF
(ANP7562-E)
250
240
230
220
210
200
190
180
170
160
150
Y
50
140
130
120
110
100
90
80
70
60
50
40
30
20
X

11.10 VOLUME ASSY

SIDE A

SIDE A

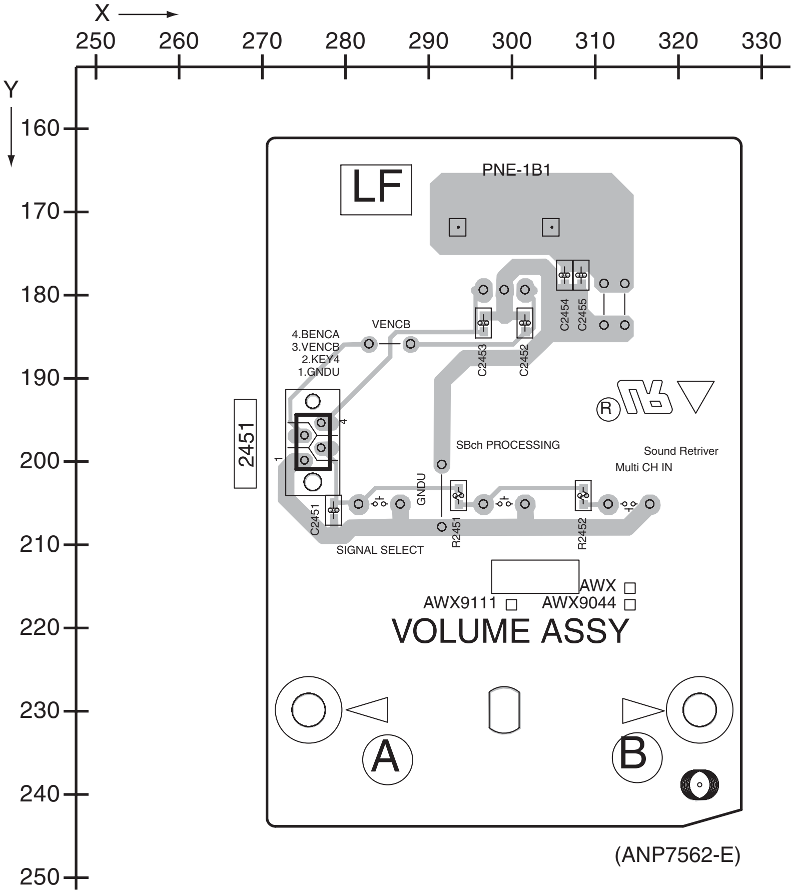
M VOLUME ASSY


VOLUME ASSY
AWX9044
AWX9111
AWX
SIGNAL SELECT
S2451
S2452
S2453
W2492
GNDU
Multi ch IN
Sound Retriver
SBch PROCESSING
L 2303
2451
LF
PNE-1B1
W2491
VENCB
W2495
W2494
S2454
(ANP7562-E)
Y
X
250
240
230
220
210
200
190
180
170
160
250
260
270
280
290
300
310
320
330

SIDE B

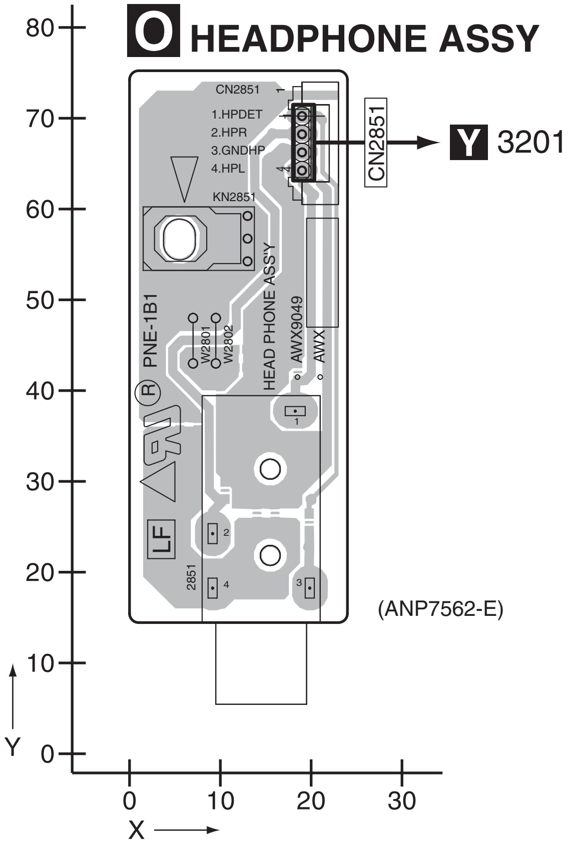
SIDE B

M VOLUME ASSY

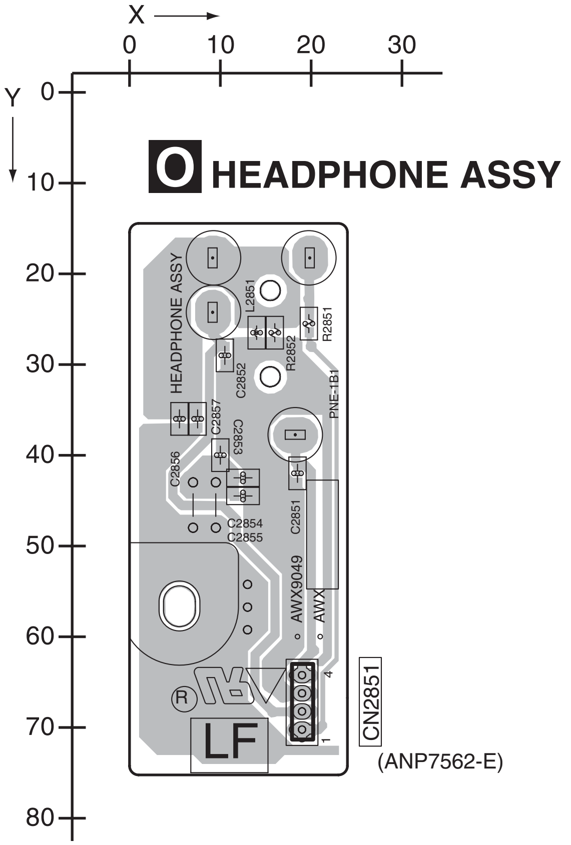

X
Y
250
260
270
280
290
300
310
320
330
160
170
180
190
200
210
220
230
240
250
LF
PNE-1B1
C2454
C2455
VENCB
4.BENCA
3.VENCB
2.KEY4
1.GNDU
C2453
C2452
2451
SBch PROCESSING
Sound Retriver
Multi CH IN
GNDU
C2451
R2451
R2452
SIGNAL SELECT
AWX
AWX9111
AWX9044
VOLUME ASSY
A
B
(ANP7562-E)

11.11 HEADPHONE ASSY

SIDE A **SIDE A**


O HEADPHONE ASSY
CN2851
1.HPDET
2.HPR
3.GNDHP
4.HPL
KN2851
CN2851
Y 3201
PNE-1B1
W2801
W2802
HEAD PHONE ASS'Y
AWX9049
AWX
LF
2851
(ANP7562-E)
80
70
60
50
40
30
20
10
0
Y
0
10
20
30
X

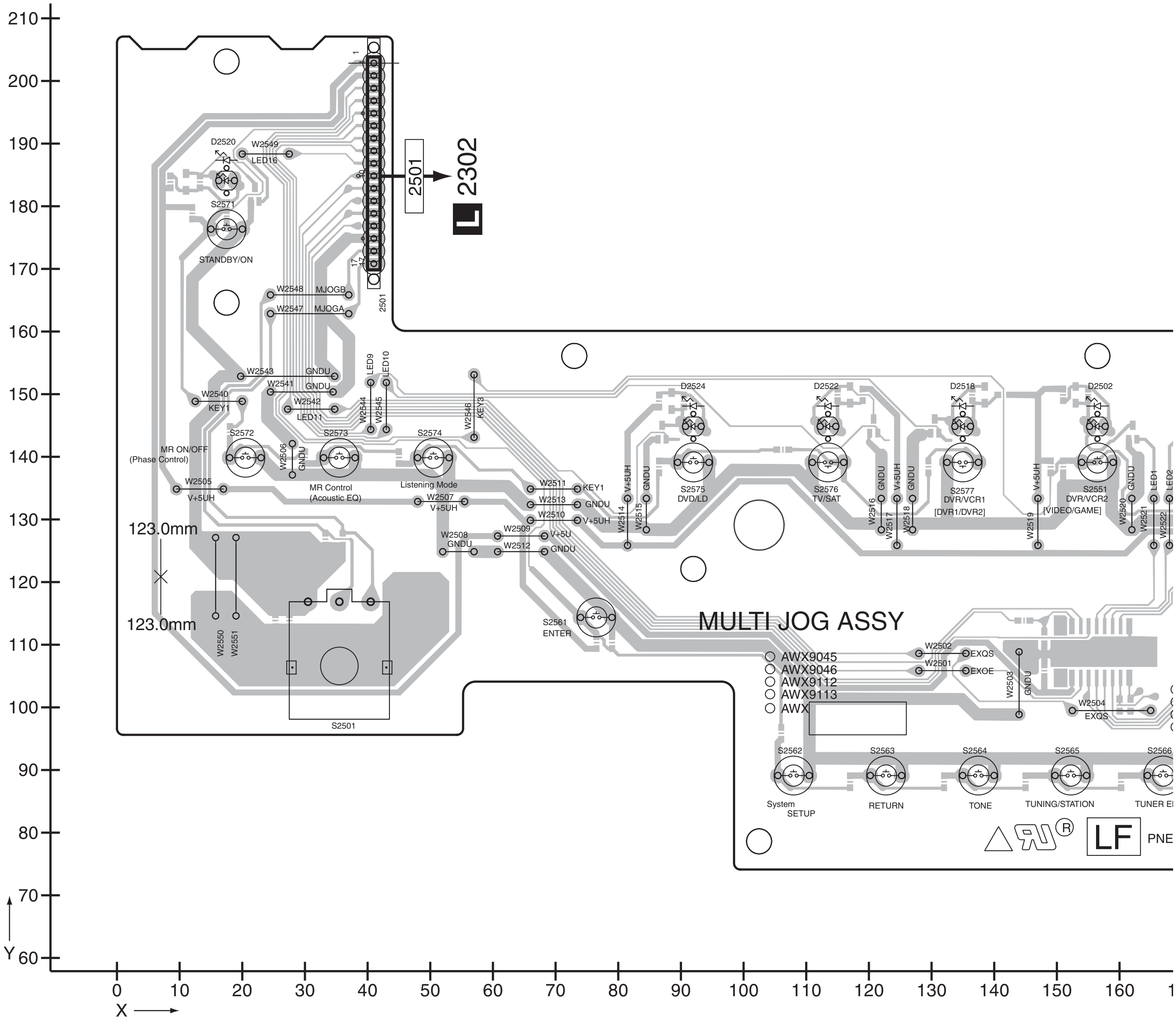
SIDE B **SIDE B**


X
0
10
20
30
Y
0
10
20
30
40
50
60
70
80
O HEADPHONE ASSY
HEADPHONE ASSY
L2851
R2851
R2852
C2852
C2857
C2853
C2856
C2854
C2855
C2851
PNE-1B1
AWX9049
AWX
CN2851
LF
(ANP7562-E)

11.12 MULTI JOG ASSY

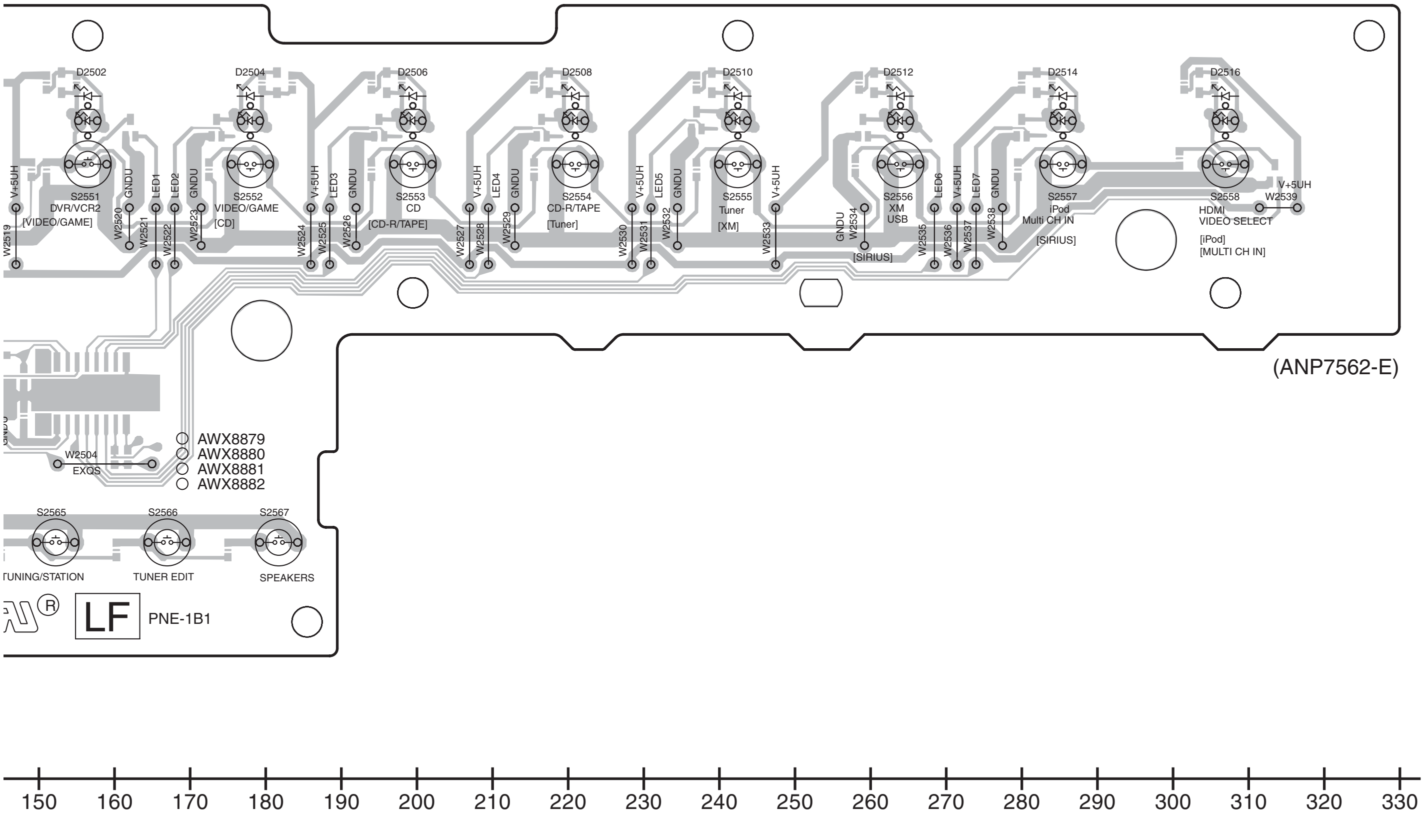
SIDE A

N MULTI JOG ASSY



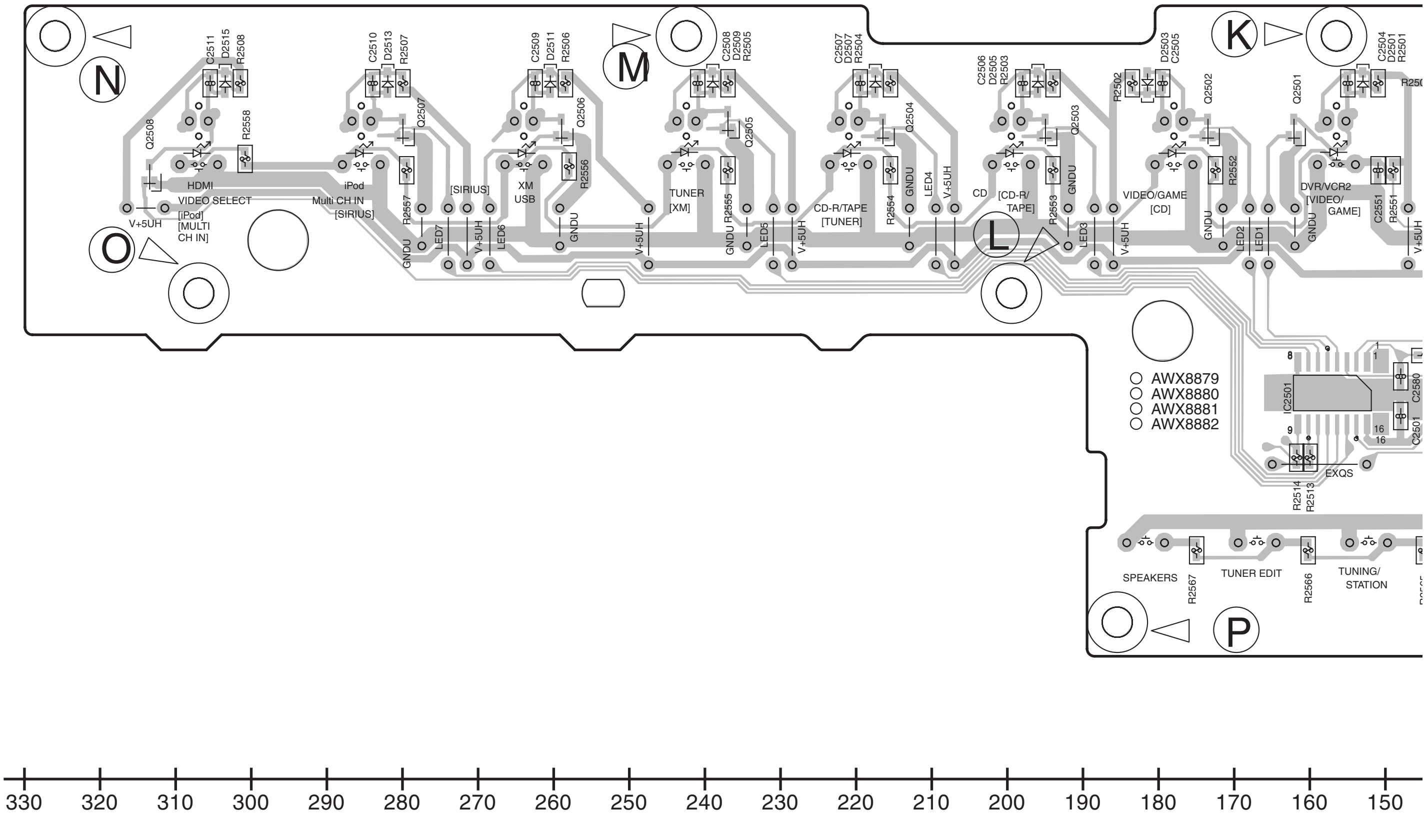
2501
L 2302
D2520
W2549
LED16
S2571
STANDBY/ON
W2548 MJOGB
W2547 MJOGA
W2543 GNDU
W2541 GNDU
W2540 KEY1
W2542 LED11
LED9
LED10
W2544
W2545
W2546 KEY3
S2572
MR ON/OFF
(Phase Control)
W2506 GNDU
S2573
MR Control
(Acoustic EQ)
S2574
Listening Mode
W2505
V+5UH
W2507
V+5UH
W2511 KEY1
W2513 GNDU
W2510 V+5UH
W2508 GNDU
W2509 V+5U
W2512 GNDU
123.0mm
123.0mm
W2550
W2551
S2501
S2561
ENTER
D2524
D2522
D2518
D2502
V+5UH
GNDU
W2514
W2515
S2575
DVD/LD
S2576
TV/SAT
W2516
W2517
W2518
S2577
DVR/VCR1
[DVR1/DVR2]
W2519
S2551
DVR/VCR2
[VIDEO/GAME]
W2520
W2521
W2522
LED1
LED2
MULTI JOG ASSY
AWX9045
AWX9046
AWX9112
AWX9113
AWX
W2502 EXQS
W2501 EXOE
W2503 GNDU
W2504 EXQS
S2562
System SETUP
S2563
RETURN
S2564
TONE
S2565
TUNING/STATION
S2566
TUNER E
LF
PNE
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
Y
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
X

SIDE A

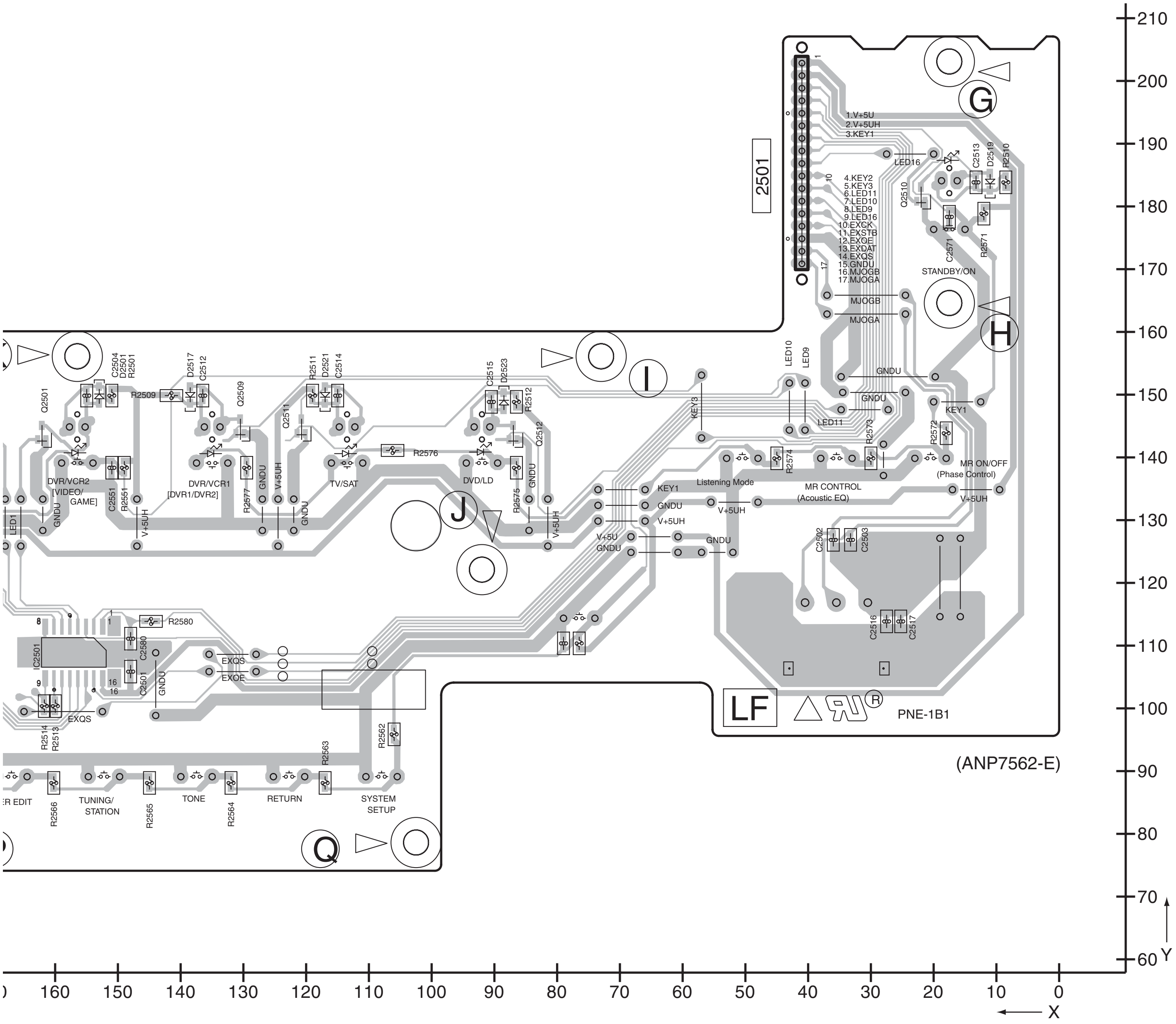

D2502
D2504
D2506
D2508
D2510
D2512
D2514
D2516
S2551
DVR/VCR2
[VIDEO/GAME]
S2552
VIDEO/GAME
[CD]
S2553
CD
[CD-R/TAPE]
S2554
CD-R/TAPE
[Tuner]
S2555
Tuner
[XM]
S2556
XM
USB
[SIRIUS]
S2557
iPod
Multi CH IN
[SIRIUS]
S2558
HDMI
VIDEO SELECT
[iPod]
[MULTI CH IN]
V+5UH
GNDU
LED1
LED2
LED3
LED4
LED5
LED6
LED7
W2519
W2520
W2521
W2522
W2523
W2524
W2525
W2526
W2527
W2528
W2529
W2530
W2531
W2532
W2533
W2534
W2535
W2536
W2537
W2538
W2539
W2504
EXQS
AWX8879
AWX8880
AWX8881
AWX8882
S2565
S2566
S2567
TUNING/STATION
TUNER EDIT
SPEAKERS
LF
PNE-1B1
(ANP7562-E)
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330

SIDE B

N MULTI JOG ASSY


N
O
M
L
K
P
C2511
D2515
R2508
Q2508
R2558
HDMI
VIDEO SELECT
[iPod]
[MULTI
CH IN]
V+5UH
C2510
D2513
R2507
Q2507
iPod
Multi CH IN
[SIRIUS]
R2557
GNDU
LED7
V+5UH
LED6
[SIRIUS]
C2509
D2511
R2506
Q2506
XM
USB
R2556
GNDU
C2508
D2509
R2505
Q2505
TUNER
[XM]
GNDU R2555
LED5
V+5UH
C2507
D2507
R2504
Q2504
CD-R/TAPE
[TUNER]
R2554
GNDU
LED4
V+5UH
CD
C2506
D2505
R2503
Q2503
[CD-R/
TAPE]
R2553
GNDU
LED3
V+5UH
R2502
D2503
C2505
Q2502
VIDEO/GAME
[CD]
R2552
GNDU
LED2
LED1
Q2501
C2504
D2501
R2501
DVR/VCR2
[VIDEO/
GAME]
C2551
R2551
GNDU
V+5UH
○ AWX8879
○ AWX8880
○ AWX8881
○ AWX8882
IC2501
8
1
9
16
C2580
C2501
R2514
R2513
EXQS
SPEAKERS
R2567
TUNER EDIT
R2566
TUNING/
STATION
330
320
310
300
290
280
270
260
250
240
230
220
210
200
190
180
170
160
150

SIDE B

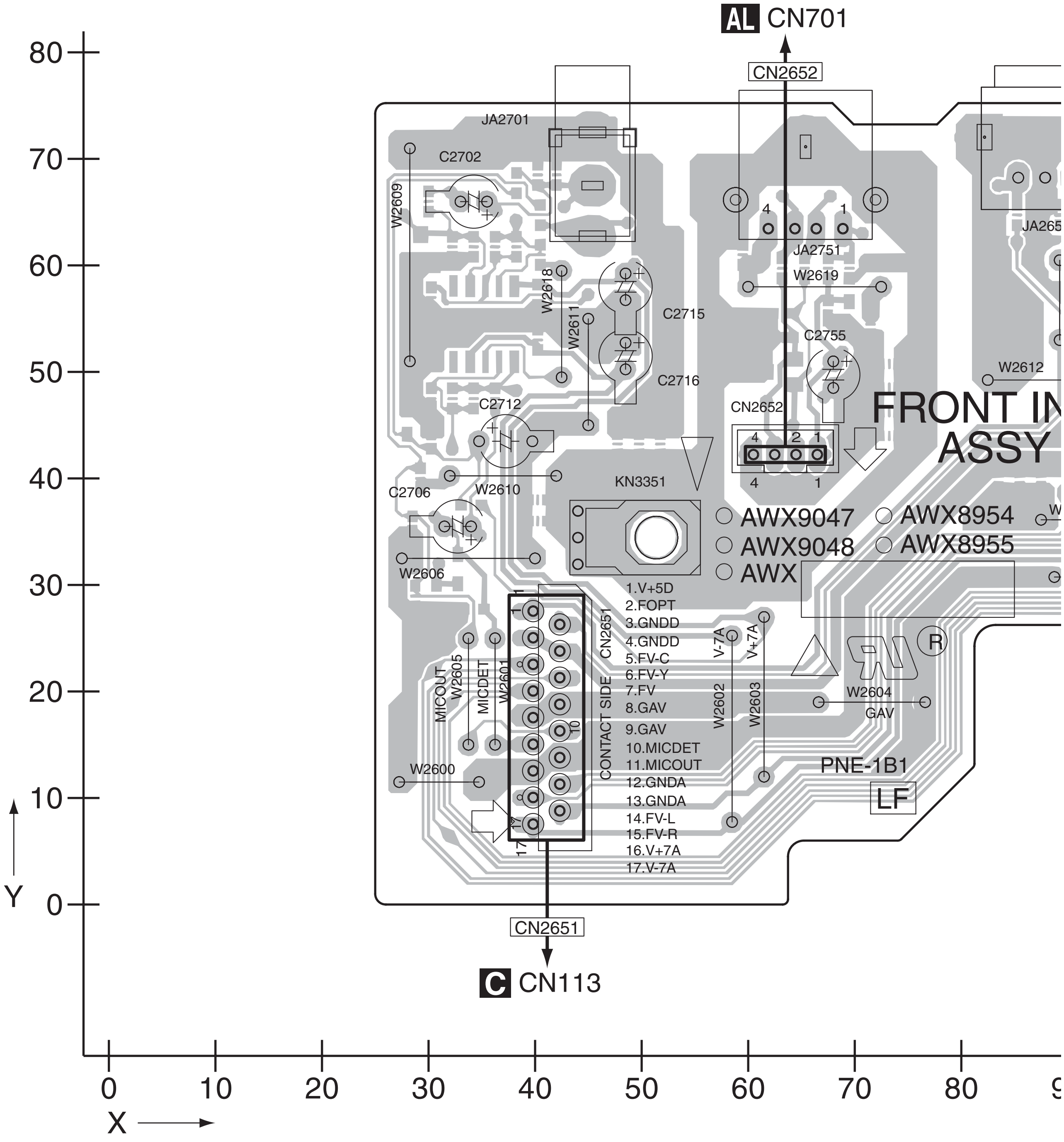


2501
1.V+5U
2.V+5UH
3.KEY1
4.KEY2
5.KEY3
6.LED11
7.LED10
8.LED9
9.LED16
10.EXCK
11.EXSTB
12.EXOE
13.EXDAT
14.EXQS
15.GNDU
16.MJOGB
17.MJOGA
G
H
I
J
Q
LED16
Q2510
C2513
D2519
R2510
C2571
R2571
STANDBY/ON
MJOGB
MJOGA
LED10
LED9
GNDU
KEY3
LED11
R2573
R2572
KEY1
R2574
MR ON/OFF
(Phase Control)
Listening Mode
MR CONTROL
(Acoustic EQ)
V+5UH
KEY1
GNDU
V+5UH
V+5U
GNDU
C2502
C2503
C2516
C2517
LF
PNE-1B1
(ANP7562-E)
C2504
D2501
R2501
Q2501
R2509
D2517
C2512
Q2509
R2511
D2521
C2514
Q2511
C2515
D2523
R2512
Q2512
R2576
DVR/VCR2
[VIDEO/
GAME]
C2551
R2551
V+5UH
DVR/VCR1
[DVR1/DVR2]
R2577
GNDU
V+5UH
GNDU
TV/SAT
DVD/LD
R2575
GNDU
V+5UH
LED1
GNDU
R2580
C2580
IC2501
C2501
GNDU
EXQS
EXOE
EXQS
R2514
R2513
R2563
R2562
ER EDIT
R2566
TUNING/
STATION
R2565
TONE
R2564
RETURN
SYSTEM
SETUP
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
Y
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
X

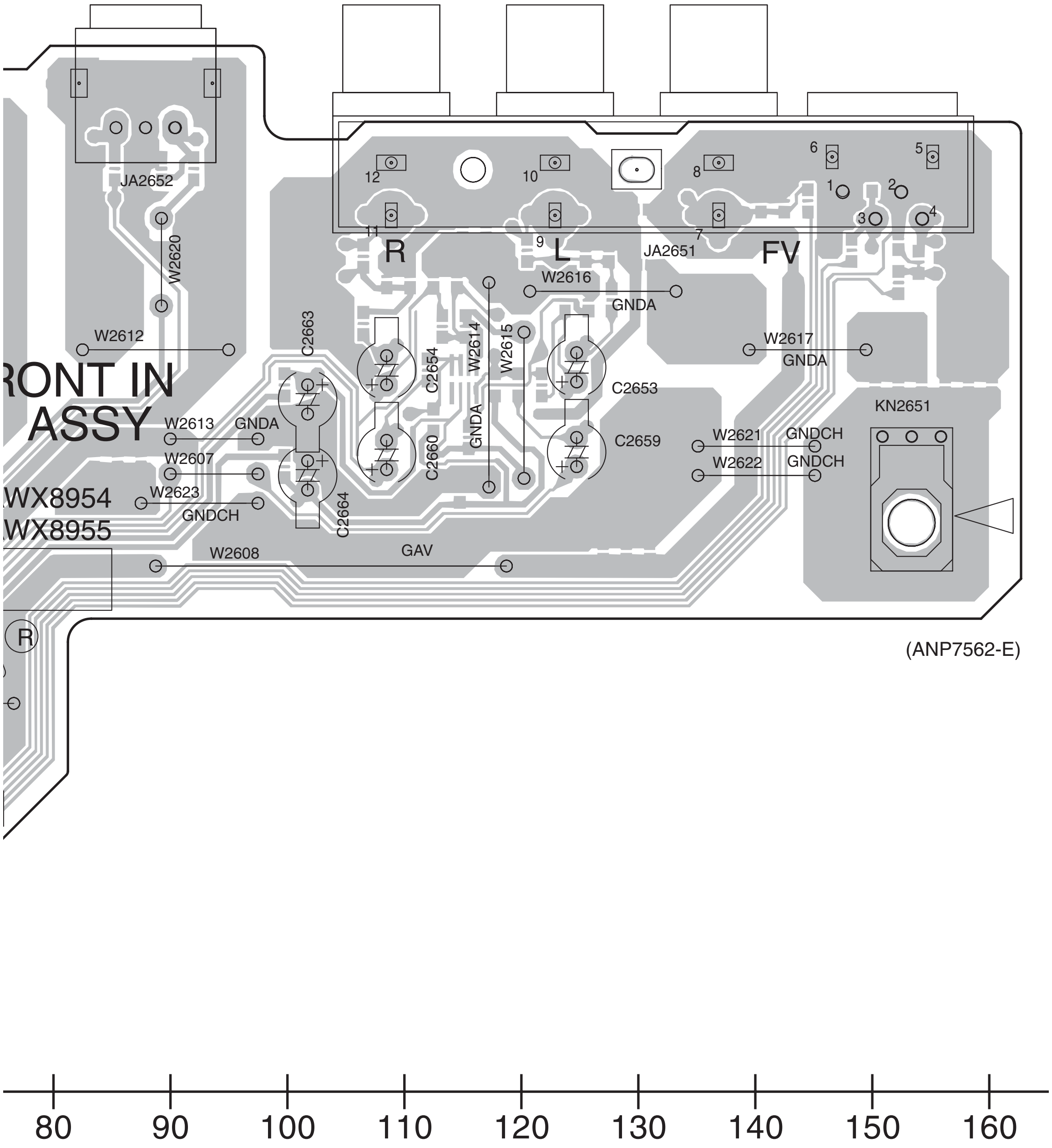
11.13 FRONT-IN ASSY

SIDE A

P FRONT-IN ASSY

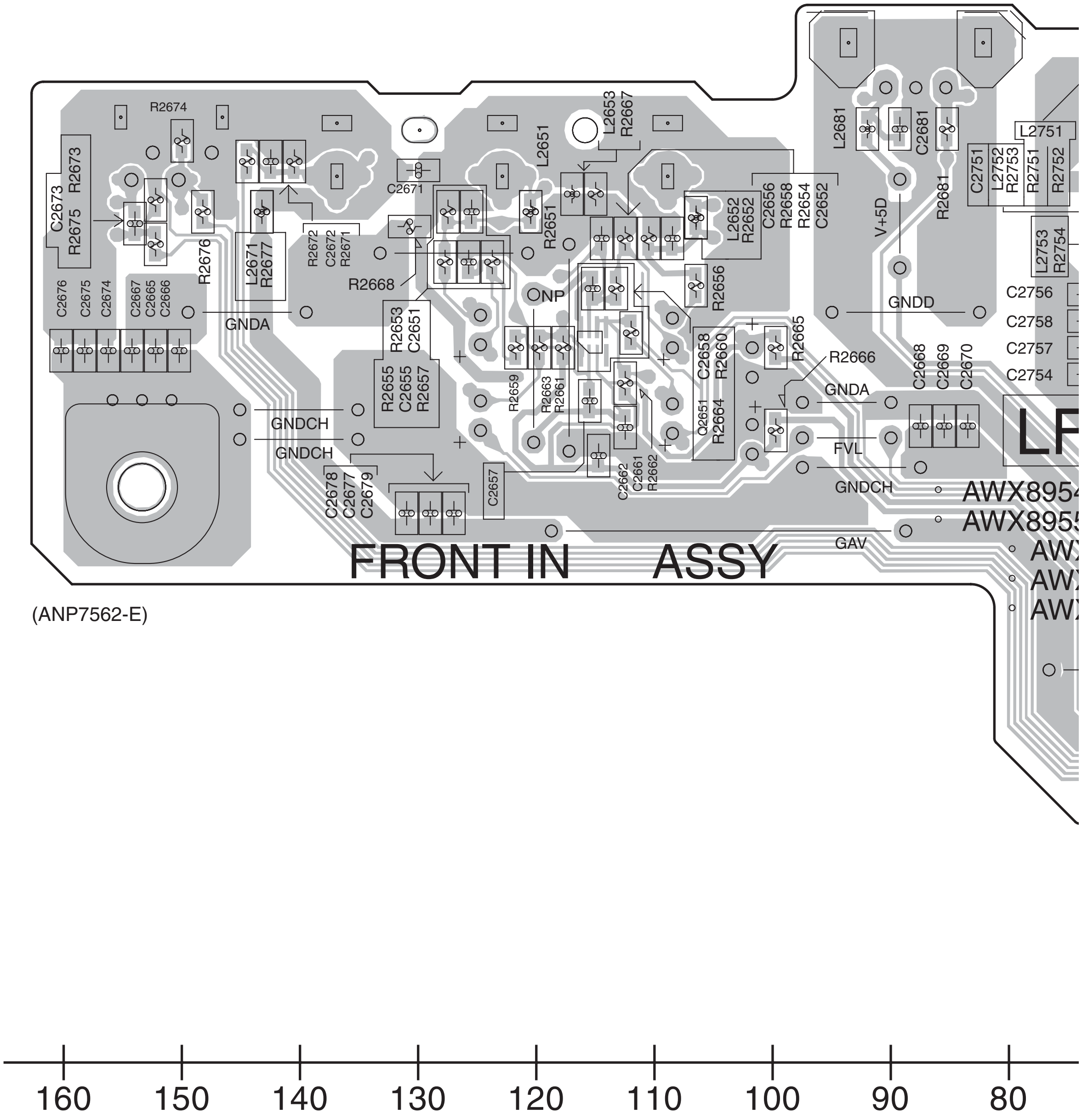

AL CN701
CN2652
JA2701
C2702
W2609
W2618
W2611
C2715
C2716
C2712
C2706
W2610
W2606
4
1
JA2751
W2619
C2755
CN2652
4 2 1
4 1
JA265
W2612
FRONT IN
ASSY
KN3351
AWX9047
AWX9048
AWX
AWX8954
AWX8955
R
1.V+5D
2.FOPT
3.GNDD
4.GNDD
5.FV-C
6.FV-Y
7.FV
8.GAV
9.GAV
10.MICDET
11.MICOUT
12.GNDA
13.GNDA
14.FV-L
15.FV-R
16.V+7A
17.V-7A
CN2651
CONTACT SIDE
10
1
17
MICOUT
W2605
MICDET
W2601
W2600
V-7A
V+7A
W2602
W2603
W2604
GAV
PNE-1B1
LF
CN2651
C CN113
Y
X
0
10
20
30
40
50
60
70
80
9

SIDE A

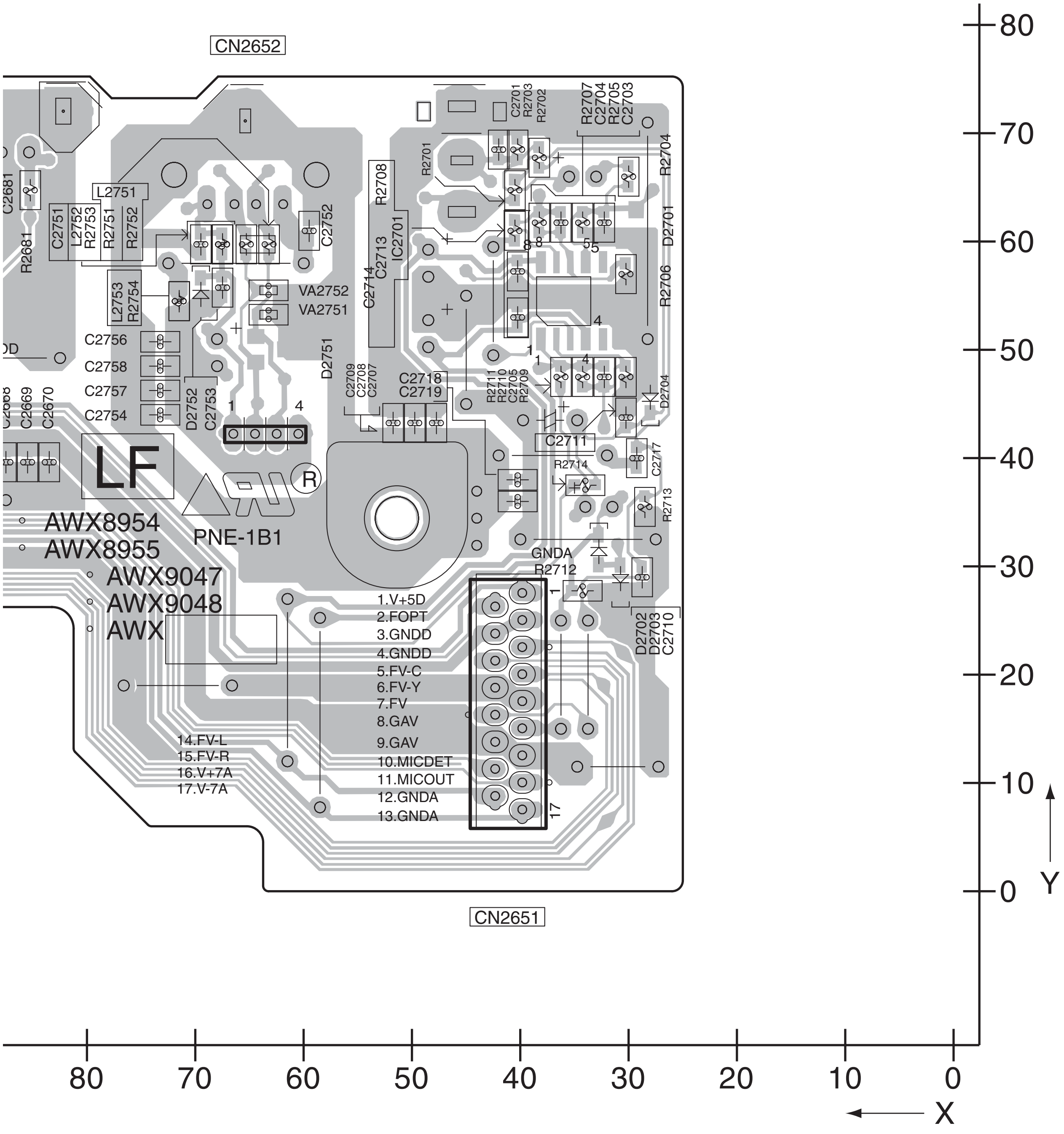

JA2652
W2620
W2612
RONT IN
ASSY
W2613
GNDA
W2607
W2623
GNDCH
WX8954
WX8955
W2608
GAV
R
C2663
C2664
12
11
R
10
9
L
8
7
FV
6
5
1
2
3
4
JA2651
W2616
GNDA
C2654
C2660
W2614
GNDA
W2615
C2653
C2659
W2617
GNDA
W2621
GNDCH
W2622
GNDCH
KN2651
(ANP7562-E)
80
90
100
110
120
130
140
150
160

SIDE B

P FRONT-IN ASSY


R2674
R2673
C2673
R2675
R2676
L2671
R2677
R2672
C2672
R2671
C2671
R2668
L2651
R2651
L2653
R2667
L2652
R2652
C2656
R2658
R2654
C2652
L2681
C2681
R2681
V+5D
L2751
C2751
L2752
R2753
R2751
R2752
L2753
R2754
C2676
C2675
C2674
C2667
C2665
C2666
GNDA
R2653
C2651
NP
R2656
GNDD
C2756
C2758
C2757
C2754
R2655
C2655
R2657
R2659
R2663
R2661
C2658
R2660
R2665
R2666
C2668
C2669
C2670
GNDA
Q2651
R2664
GNDCH
GNDCH
FVL
GNDCH
C2678
C2677
C2679
C2657
C2662
C2661
R2662
AWX8954
AWX8955
AW
AW
AW
LF
GAV
FRONT IN ASSY
(ANP7562-E)
160
150
140
130
120
110
100
90
80

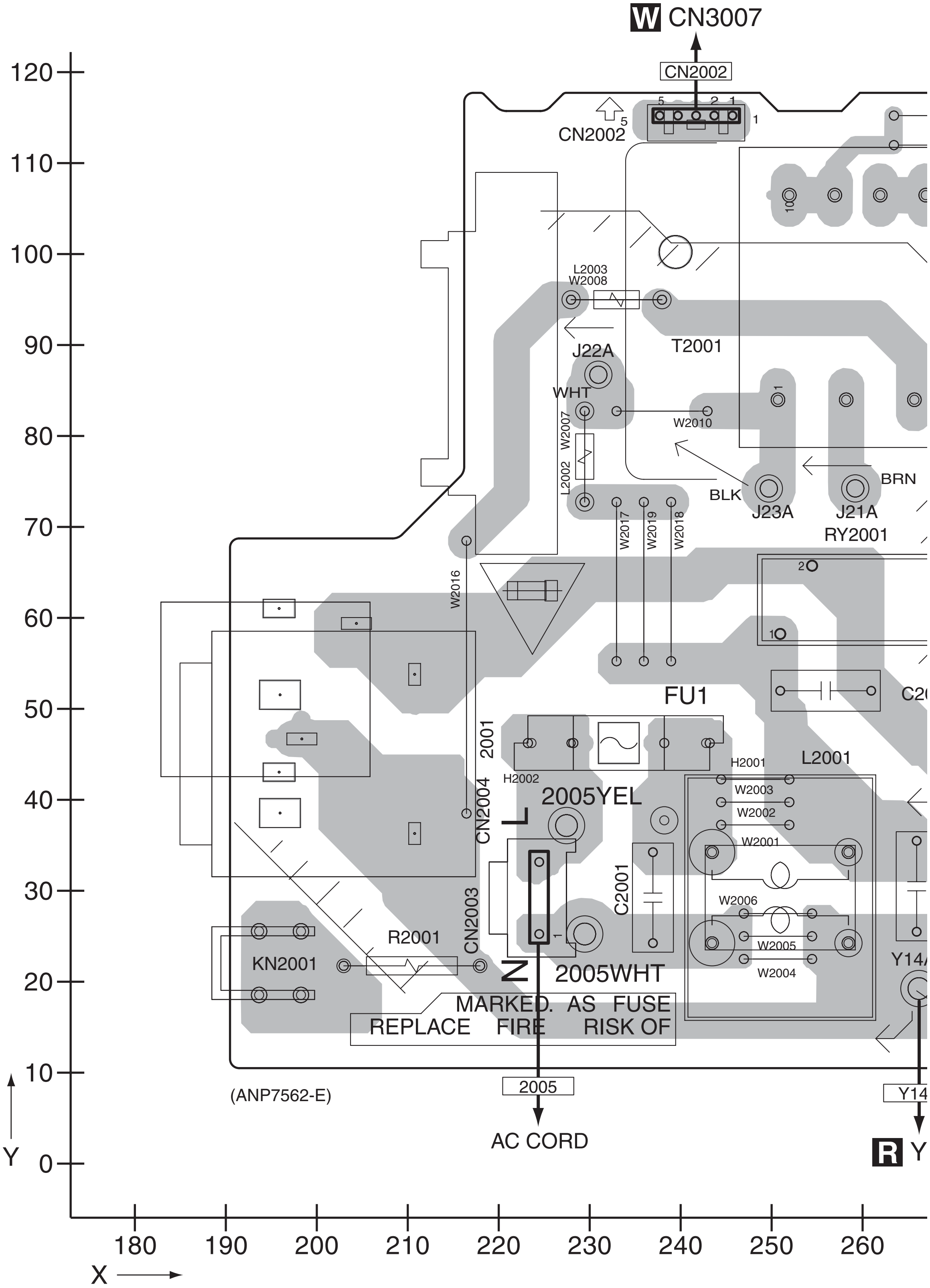
SIDE B


CN2652
CN2651
C2681
R2681
L2751
C2751
L2752
R2753
R2751
R2752
C2752
L2753
R2754
VA2752
VA2751
C2756
C2758
C2757
C2754
D2752
C2753
D2751
C2714
C2713
IC2701
R2708
R2701
C2701
R2703
R2702
R2707
C2704
R2705
C2703
R2704
D2701
R2706
C2709
C2708
C2707
C2718
C2719
R2711
R2710
C2705
R2709
D2704
C2711
R2714
C2717
R2713
GNDA
R2712
D2702
D2703
C2710
C2669
C2670
LF
R
AWX8954
AWX8955
AWX9047
AWX9048
AWX
PNE-1B1
1.V+5D
2.FOPT
3.GNDD
4.GNDD
5.FV-C
6.FV-Y
7.FV
8.GAV
9.GAV
10.MICDET
11.MICOUT
12.GNDA
13.GNDA
14.FV-L
15.FV-R
16.V+7A
17.V-7A
1
4
8
5
17
80
70
60
50
40
30
20
10
0
Y
X

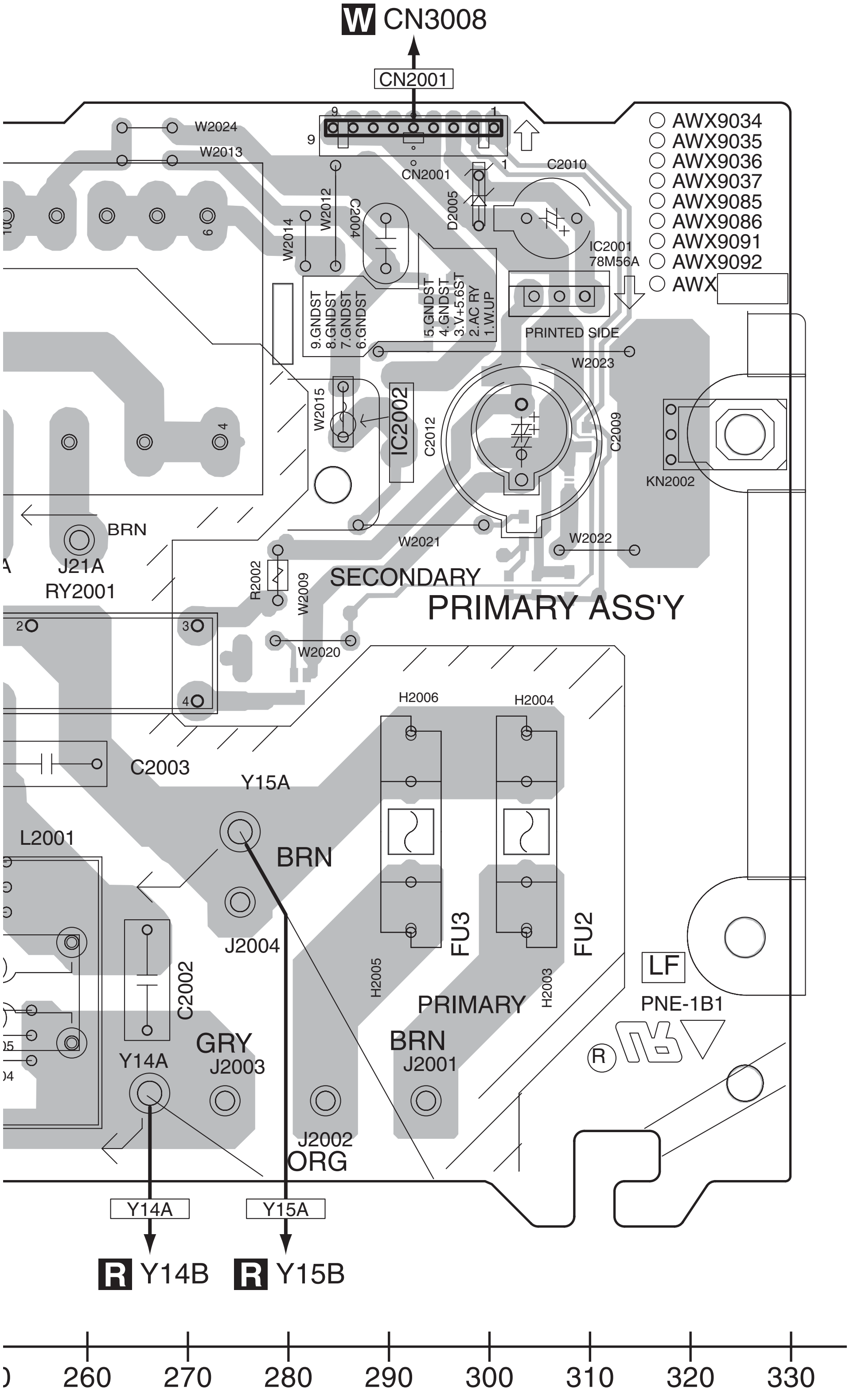
11.14 PRIMARY ASSY

SIDE A

Q PRIMARY ASSY

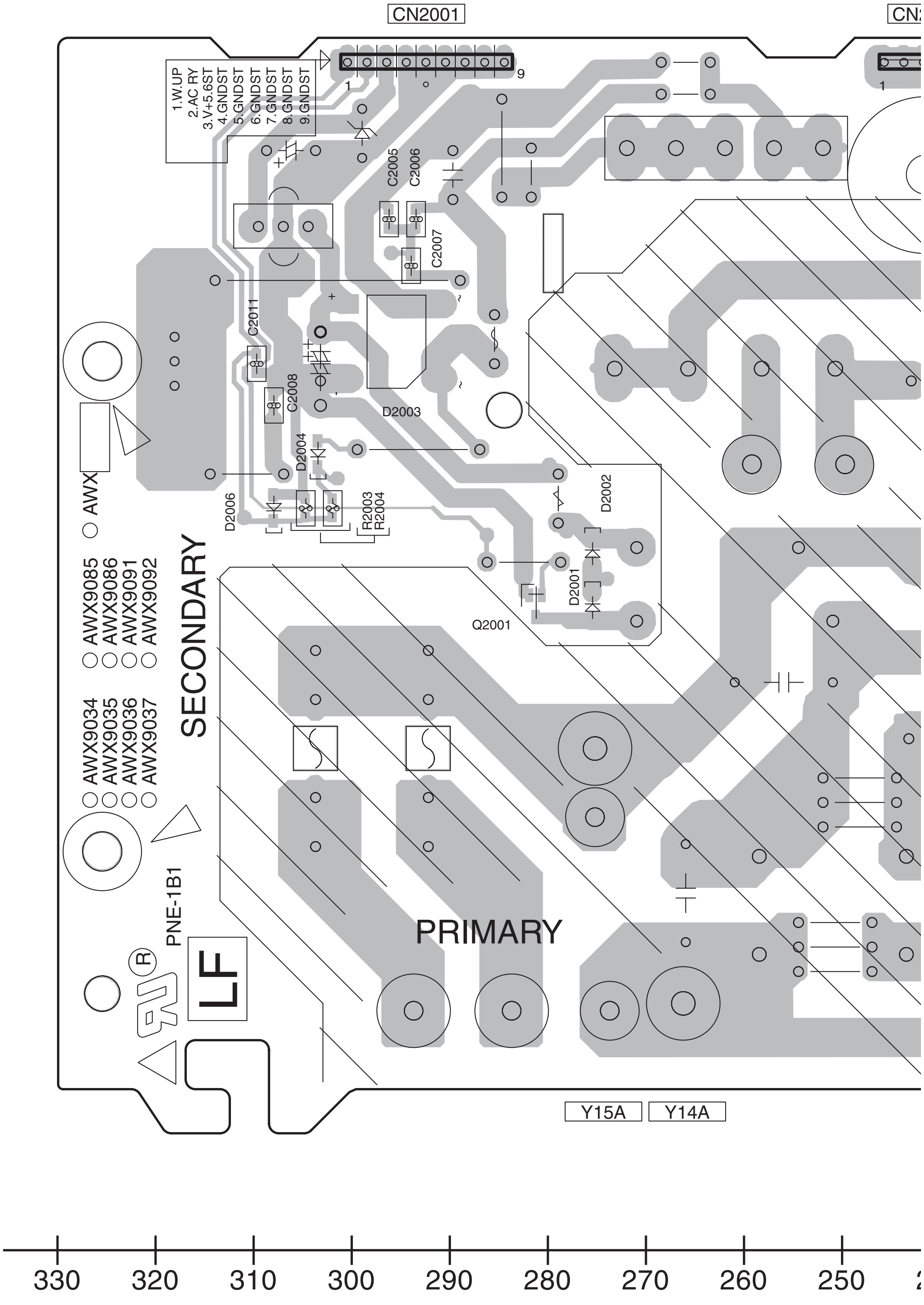

W CN3007
CN2002
5 2 1
5
1
CN2002
10
L2003
W2008
J22A
T2001
WHT
W2010
W2007
L2002
BLK
BRN
J23A
J21A
RY2001
W2017
W2019
W2018
W2016
2
1
FU1
C2
2001
H2002
CN2004
L
2005YEL
H2001
W2003
W2002
W2001
L2001
C2001
W2006
W2005
W2004
CN2003
R2001
KN2001
N
2005WHT
Y14
MARKED. AS FUSE
REPLACE FIRE RISK OF
(ANP7562-E)
2005
AC CORD
Y14
R Y
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
180
190
200
210
220
230
240
250
260
X

SIDE A

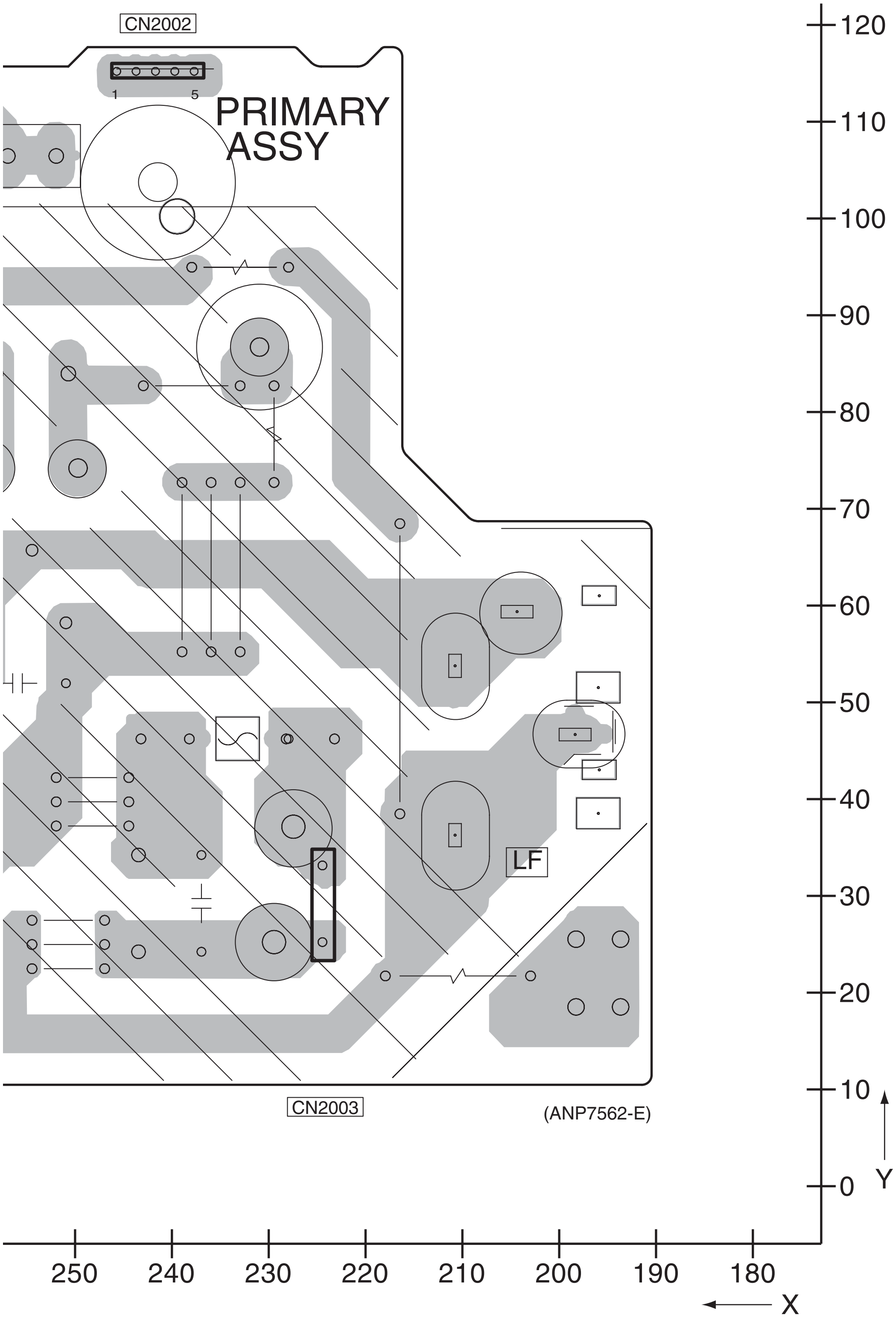

W CN3008
CN2001
9
1
W2024
W2013
CN2001
D2005
C2010
W2012
W2014
C2004
IC2001
78M56A
9.GNDST
8.GNDST
7.GNDST
6.GNDST
5.GNDST
4.GNDST
3.V+5.6ST
2.AC RY
1.W.UP
PRINTED SIDE
W2023
W2015
IC2002
C2012
C2009
KN2002
○ AWX9034
○ AWX9035
○ AWX9036
○ AWX9037
○ AWX9085
○ AWX9086
○ AWX9091
○ AWX9092
○ AWX
BRN
J21A
RY2001
W2021
W2022
R2002
W2009
SECONDARY
PRIMARY ASS'Y
2
3
4
W2020
H2006
H2004
C2003
Y15A
L2001
BRN
J2004
FU3
FU2
H2005
H2003
C2002
PRIMARY
LF
PNE-1B1
GRY
Y14A
J2003
BRN
J2001
J2002
ORG
Y14A
Y15A
R Y14B
R Y15B
260
270
280
290
300
310
320
330

SIDE B

Q PRIMARY ASSY


CN2001
CN
1.W.UP
2.AC RY
3.V+5.6ST
4.GNDST
5.GNDST
6.GNDST
7.GNDST
8.GNDST
9.GNDST
1
9
1
C2005
C2006
C2007
C2011
C2008
D2003
D2004
D2006
R2003
R2004
D2002
D2001
Q2001
AWX
AWX9085
AWX9086
AWX9091
AWX9092
AWX9034
AWX9035
AWX9036
AWX9037
SECONDARY
PRIMARY
PNE-1B1
LF
Y15A
Y14A
330
320
310
300
290
280
270
260
250

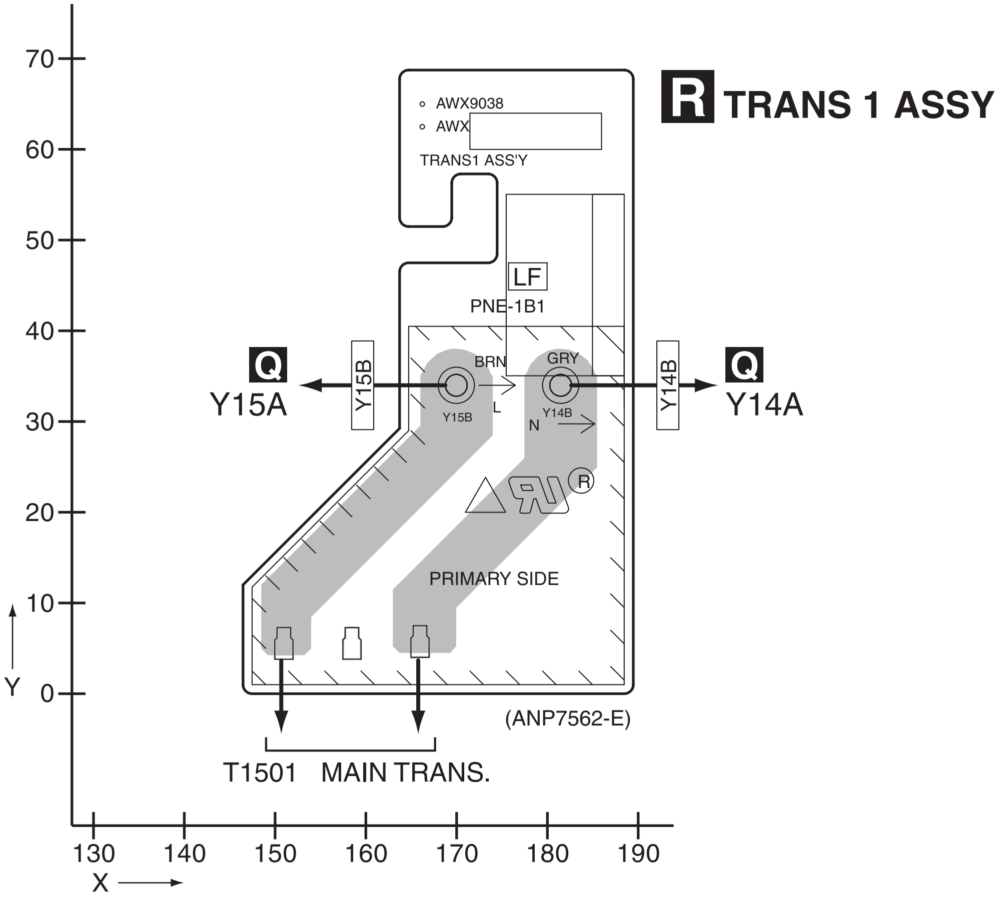
SIDE B


CN2002
PRIMARY ASSY
LF
CN2003
(ANP7562-E)
Y
X

11.15 TRANS 1 ASSY

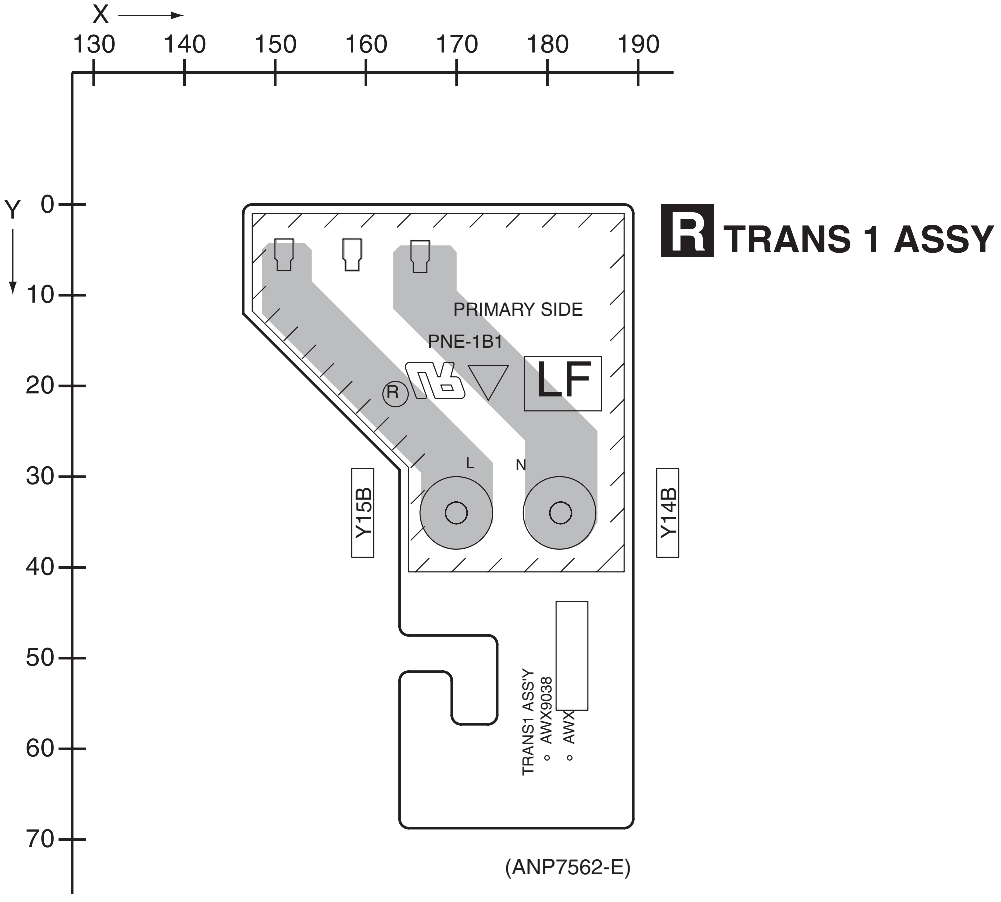
SIDE A

SIDE A

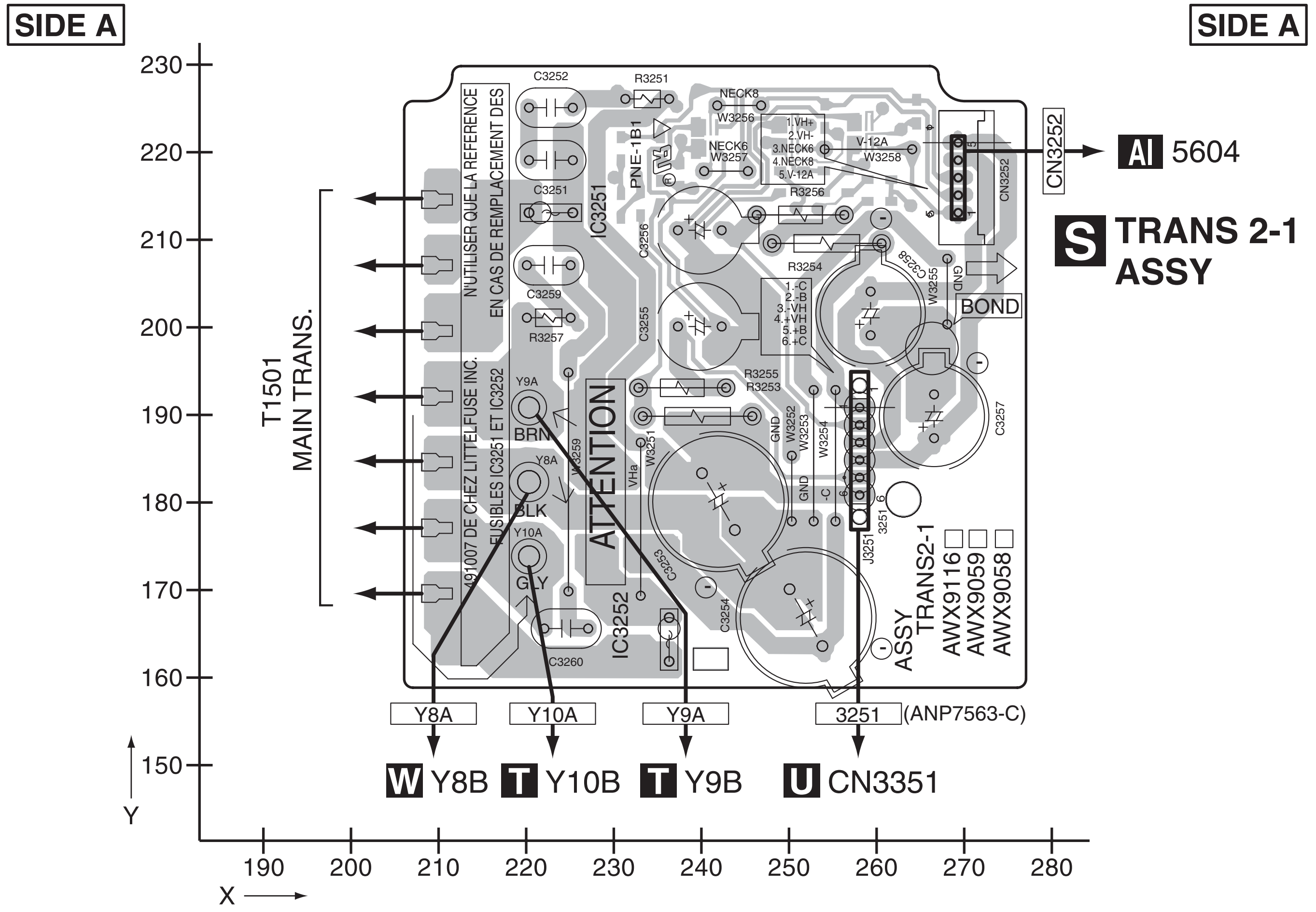

R TRANS 1 ASSY
AWX9038
AWX
TRANS1 ASS'Y
LF
PNE-1B1
Q
Y15A
Y15B
BRN
GRY
Y14B
Q
Y14A
L
N
R
PRIMARY SIDE
(ANP7562-E)
T1501 MAIN TRANS.
70
60
50
40
30
20
10
0
Y
130 140 150 160 170 180 190
X

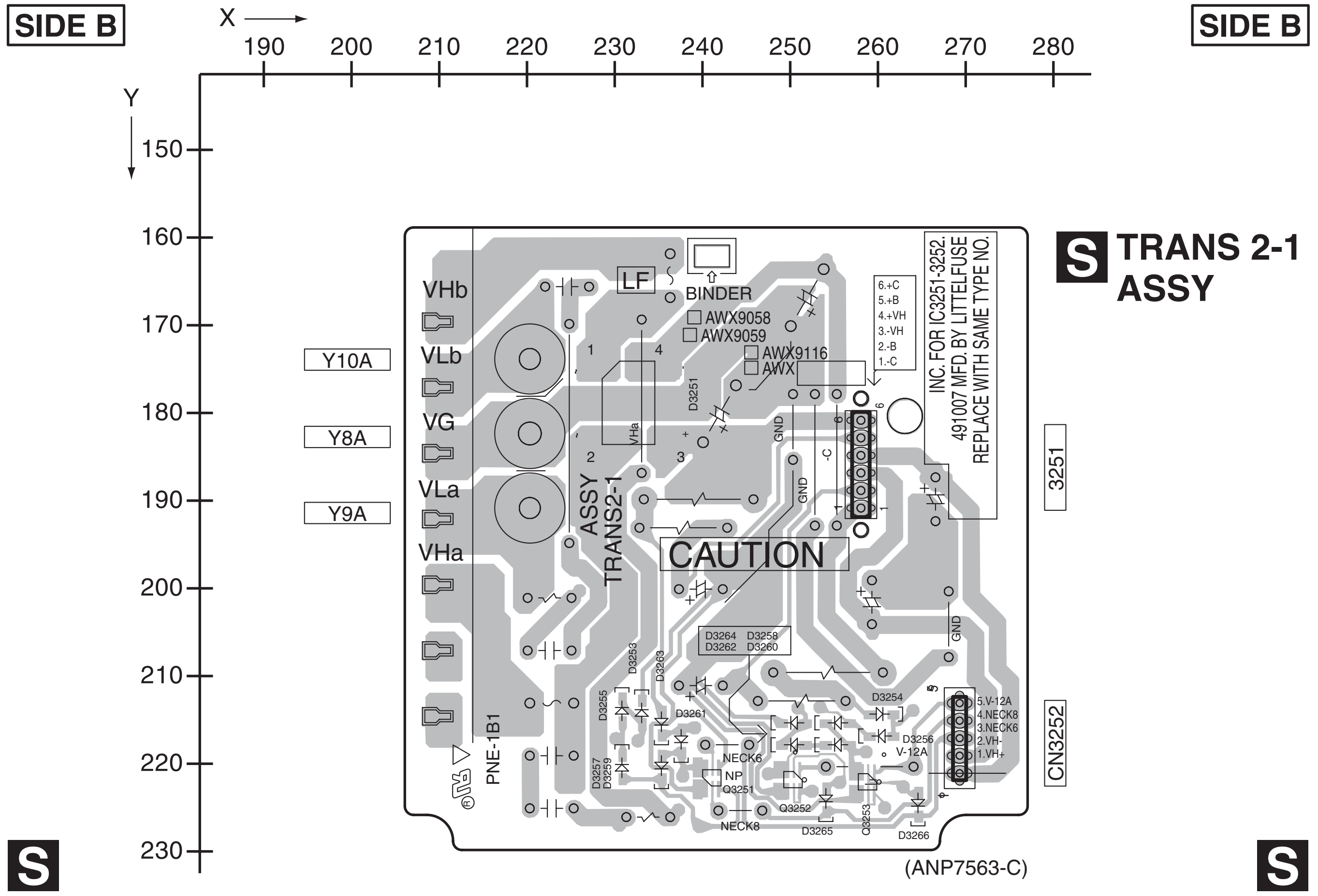
SIDE B

SIDE B


X
130 140 150 160 170 180 190
Y
0
10
20
30
40
50
60
70
R TRANS 1 ASSY
PRIMARY SIDE
PNE-1B1
LF
R
L
N
Y15B
Y14B
TRANS1 ASS'Y
AWX9038
AWX
(ANP7562-E)

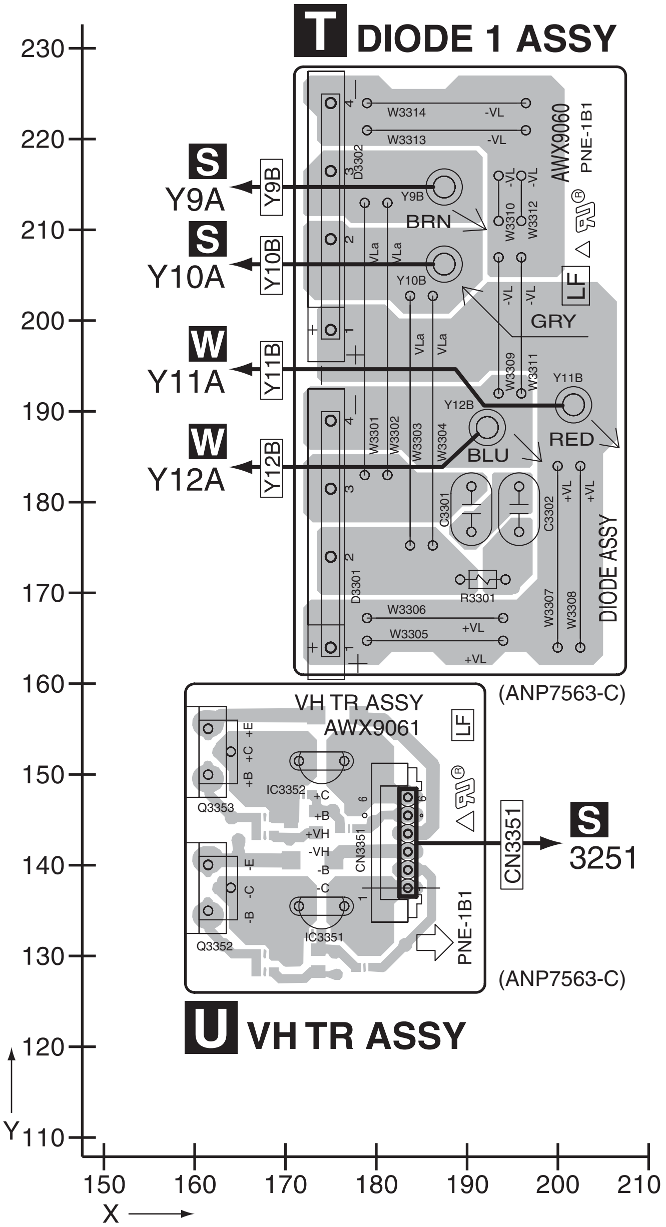
11.16 TRANS 2-1 ASSY


SIDE A
SIDE A
T1501
MAIN TRANS.
230
220
210
200
190
180
170
160
150
Y
190
200
210
220
230
240
250
260
270
280
X
C3252
R3251
NECK8
W3256
NECK6
W3257
1.VH+
2.VH-
3.NECK6
4.NECK8
5.V-12A
V-12A
W3258
CN3252
C3251
IC3251
PNE-1B1
R3256
C3256
R3254
C3258
W3255
GND
C3259
R3257
C3255
1.-C
2.-B
3.-VH
4.+VH
5.+B
6.+C
BOND
N'UTILISER QUE LA REFERENCE
EN CAS DE REMPLACEMENT DES
FUSIBLES IC3251 ET IC3252
491007 DE CHEZ LITTELFUSE INC.
Y9A
BRN
Y8A
BLK
Y10A
GLY
W3259
ATTENTION
VHa
W3251
R3255
R3253
GND
W3252
W3253
W3254
C3257
J3251
3251
C3253
C3254
IC3252
C3260
ASSY
TRANS2-1
AWX9116
AWX9059
AWX9058
Y8A
Y10A
Y9A
3251
(ANP7563-C)
W Y8B
T Y10B
T Y9B
U CN3351
AI 5604
S TRANS 2-1 ASSY

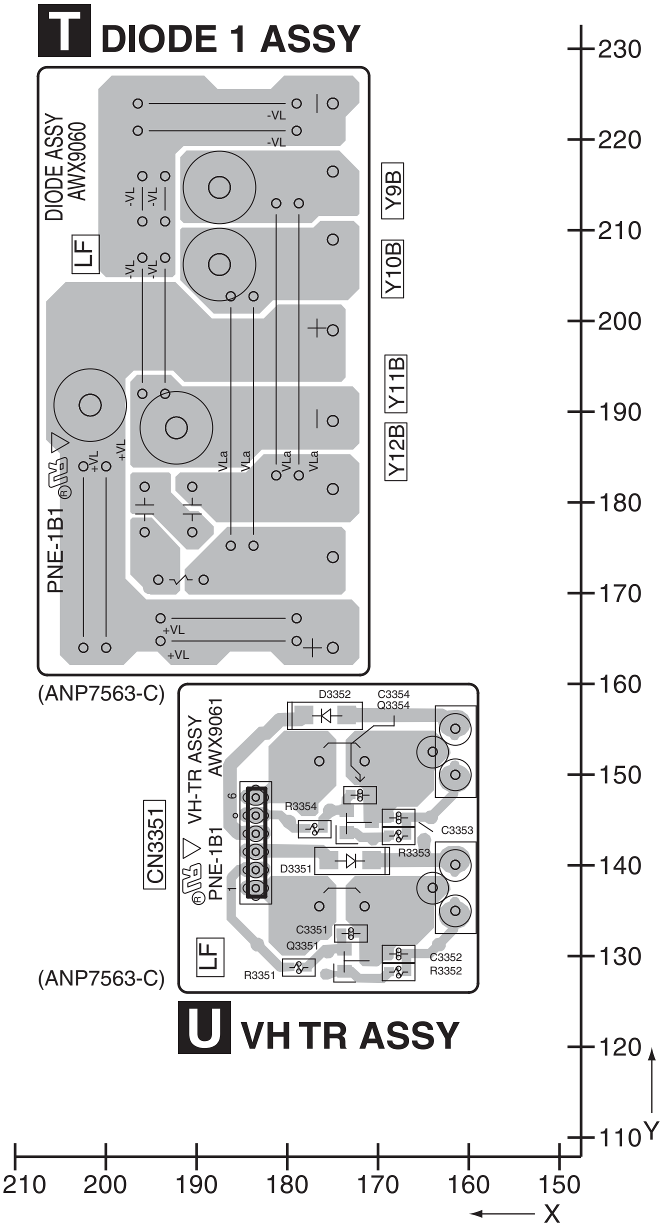

SIDE B
SIDE B
X
190
200
210
220
230
240
250
260
270
280
Y
150
160
170
180
190
200
210
220
230
Y10A
Y8A
Y9A
VHb
VLb
VG
VLa
VHa
LF
BINDER
AWX9058
AWX9059
AWX9116
AWX
6.+C
5.+B
4.+VH
3.-VH
2.-B
1.-C
INC. FOR IC3251-3252.
491007 MFD. BY LITTELFUSE
REPLACE WITH SAME TYPE NO.
1
2
3
4
D3251
VHa
GND
-C
GND
ASSY
TRANS2-1
CAUTION
3251
D3264
D3262
D3258
D3260
D3253
D3263
D3255
D3261
D3254
D3256
D3257
D3259
PNE-1B1
NECK6
NP
Q3251
Q3252
Q3253
NECK8
D3265
D3266
V-12A
5.V-12A
4.NECK8
3.NECK6
2.VH-
1.VH+
CN3252
GND
(ANP7563-C)
S TRANS 2-1 ASSY
S
S

11.17 DIODE 1 and VH TR ASSYS

SIDE A


T DIODE 1 ASSY
U VH TR ASSY
S Y9A
S Y10A
W Y11A
W Y12A
S 3251
Y9B
Y10B
Y11B
Y12B
BRN
GRY
RED
BLU
AWX9060
PNE-1B1
LF
DIODE ASSY
D3301
D3302
W3301
W3302
W3303
W3304
W3305
W3306
W3307
W3308
W3309
W3310
W3311
W3312
W3313
W3314
C3301
C3302
R3301
-VL
+VL
VLa
(ANP7563-C)
VH TR ASSY
AWX9061
IC3351
IC3352
Q3352
Q3353
CN3351
+B
+C
+E
-B
-C
-E
+VH
-VH
230
220
210
200
190
180
170
160
150
140
130
120
110
Y
150
160
170
180
190
200
210
X

SIDE B

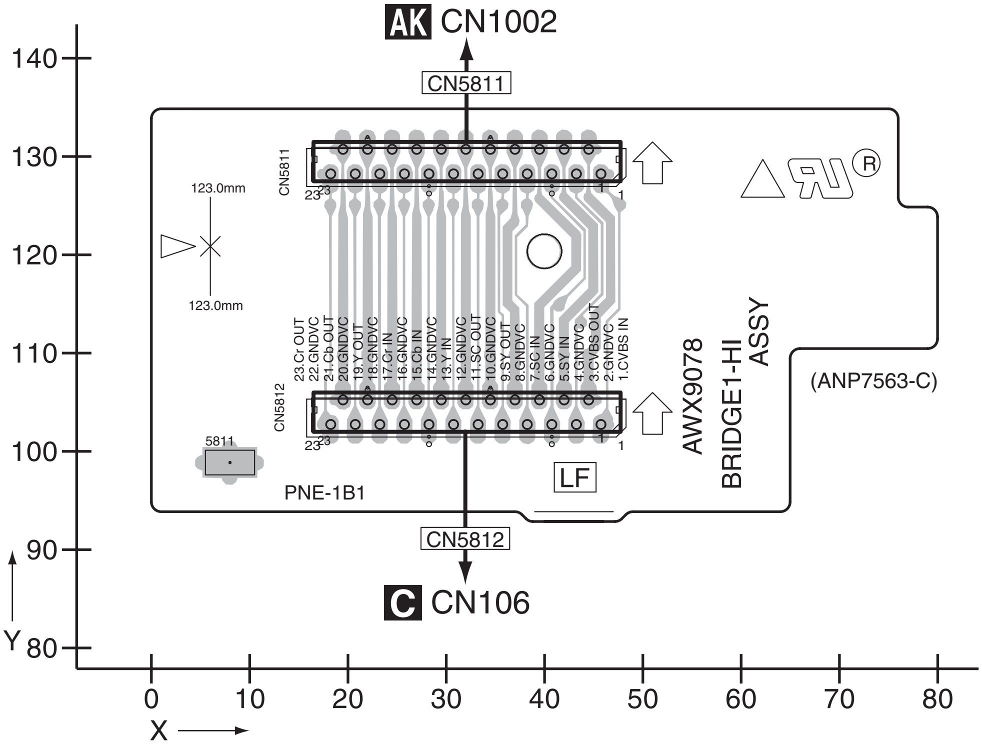

T DIODE 1 ASSY
U VH TR ASSY
DIODE ASSY
AWX9060
PNE-1B1
LF
Y9B
Y10B
Y11B
Y12B
-VL
+VL
VLa
(ANP7563-C)
VH-TR ASSY
AWX9061
CN3351
D3351
D3352
C3351
C3352
C3353
C3354
Q3351
Q3354
R3351
R3352
R3353
R3354
230
220
210
200
190
180
170
160
150
140
130
120
110
Y
210
200
190
180
170
160
150
X

11.18 BRIDGE 1 ASSY

SIDE A

SIDE A

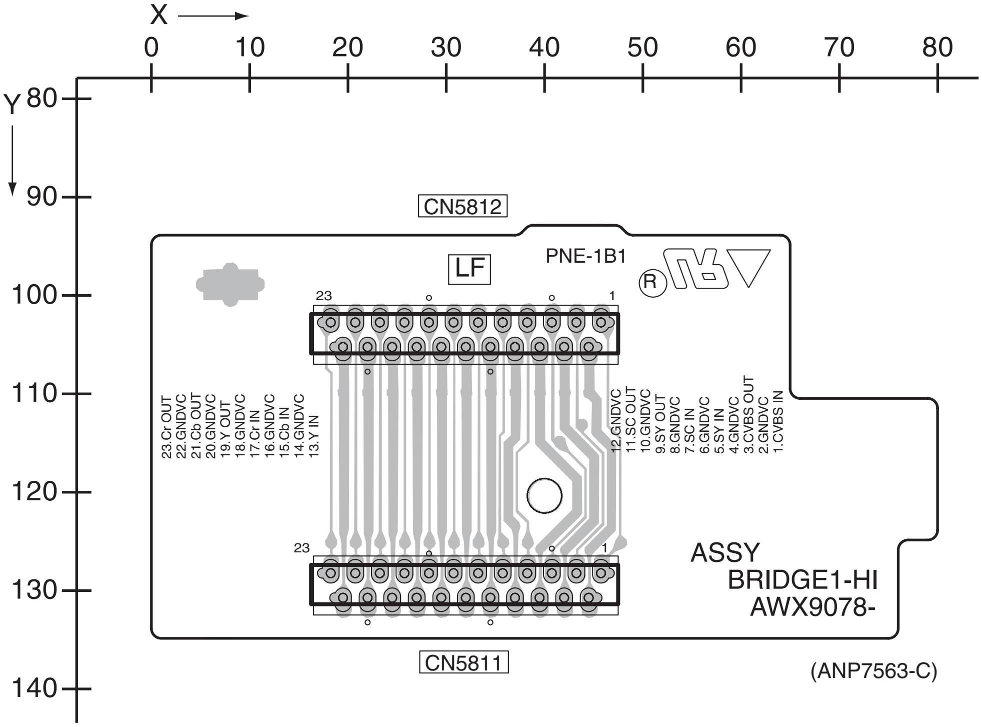
V BRIDGE 1 ASSY


AK CN1002
CN5811
CN5811
23
1
123.0mm
123.0mm
23.Cr OUT
22.GNDVC
21.Cb OUT
20.GNDVC
19.Y OUT
18.GNDVC
17.Cr IN
16.GNDVC
15.Cb IN
14.GNDVC
13.Y IN
12.GNDVC
11.SC OUT
10.GNDVC
9.SY OUT
8.GNDVC
7.SC IN
6.GNDVC
5.SY IN
4.GNDVC
3.CVBS OUT
2.GNDVC
1.CVBS IN
CN5812
23
1
5811
PNE-1B1
LF
AWX9078
BRIDGE1-HI
ASSY
(ANP7563-C)
CN5812
C CN106
140
130
120
110
100
90
Y 80
0
10
20
30
40
50
60
70
80
X

SIDE B

SIDE B

V BRIDGE 1 ASSY

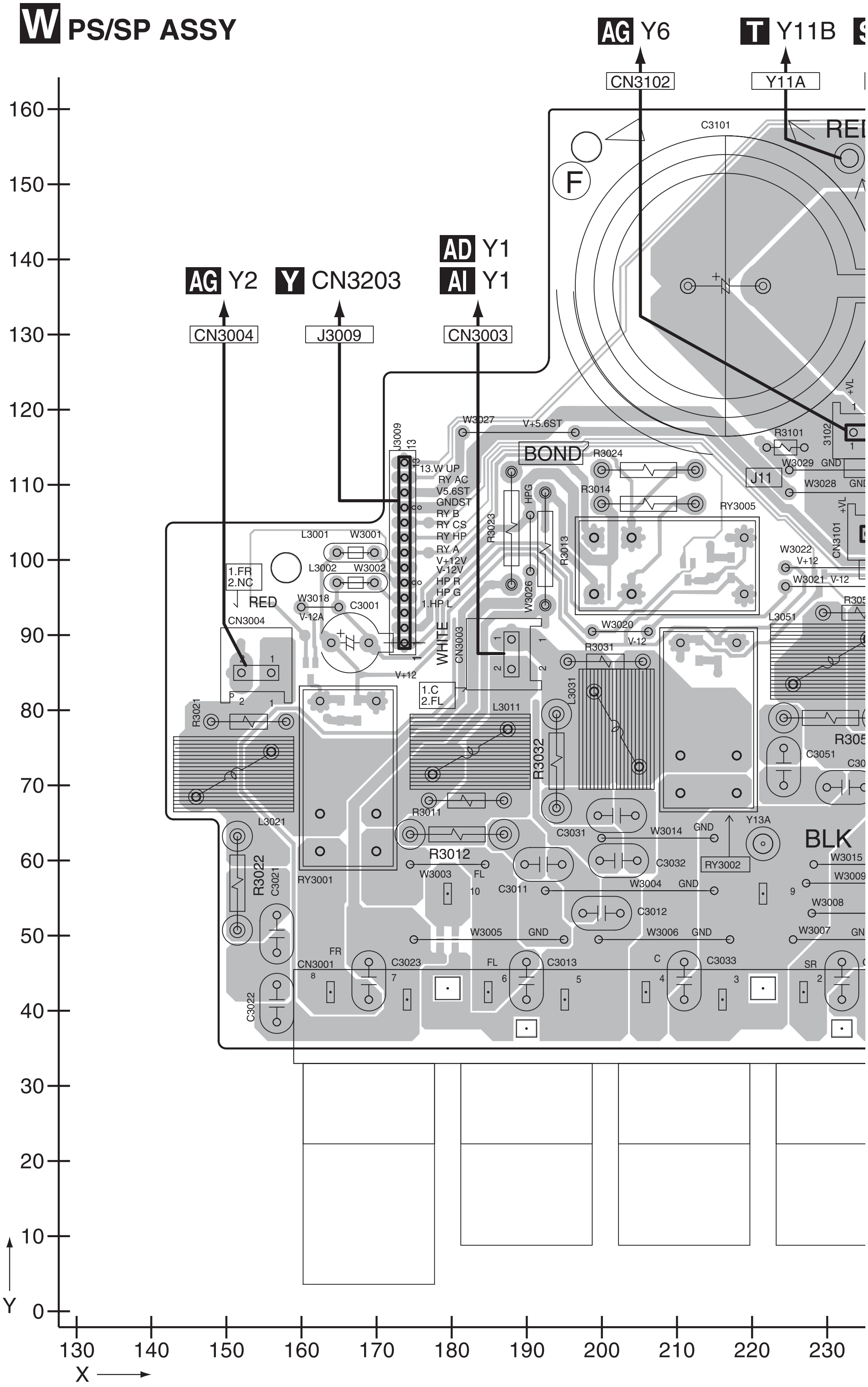

X
0
10
20
30
40
50
60
70
80
Y 80
90
100
110
120
130
140
CN5812
LF
PNE-1B1
23
1
23.Cr OUT
22.GNDVC
21.Cb OUT
20.GNDVC
19.Y OUT
18.GNDVC
17.Cr IN
16.GNDVC
15.Cb IN
14.GNDVC
13.Y IN
12.GNDVC
11.SC OUT
10.GNDVC
9.SY OUT
8.GNDVC
7.SC IN
6.GNDVC
5.SY IN
4.GNDVC
3.CVBS OUT
2.GNDVC
1.CVBS IN
23
1
ASSY
BRIDGE1-HI
AWX9078-
CN5811
(ANP7563-C)

V

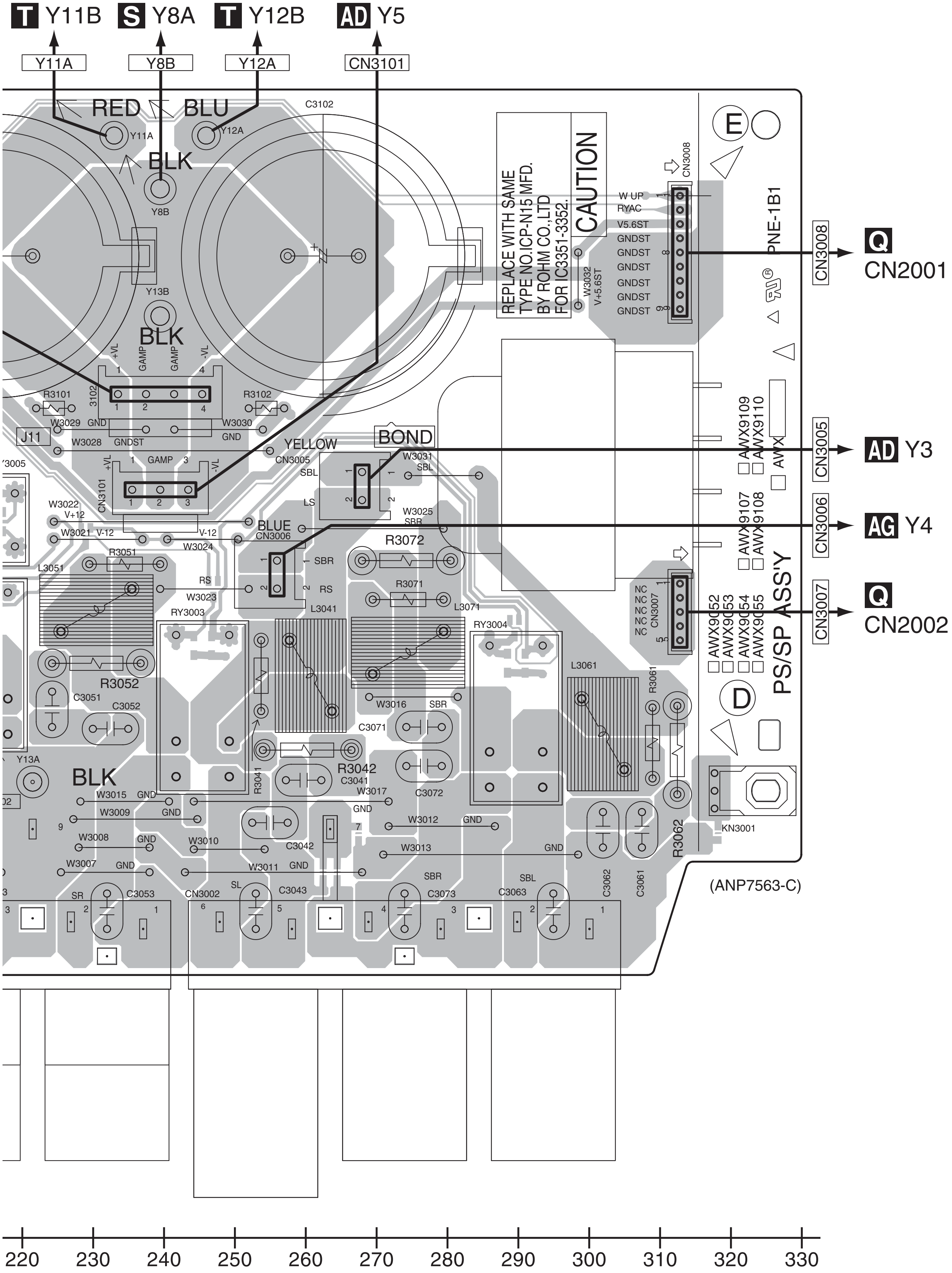
V

11.19 PS/SP ASSY

SIDE A

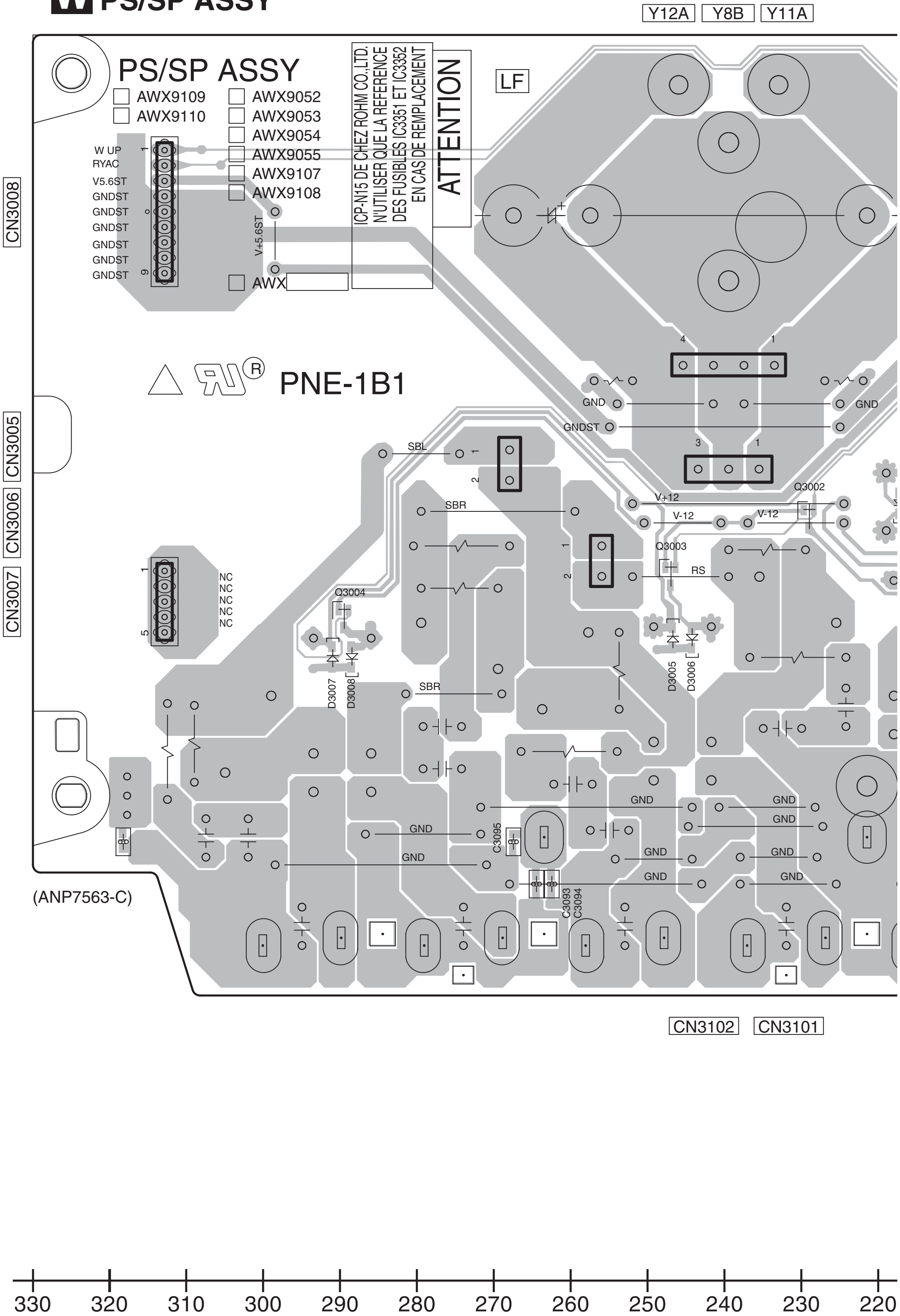

W PS/SP ASSY
AG Y6
CN3102
T Y11B
Y11A
AG Y2
CN3004
Y CN3203
J3009
AD Y1
AI Y1
CN3003
F
C3101
RED
BOND
R3024
R3014
RY3005
HPG
R3023
R3013
W3026
W3027
V+5.6ST
R3101
W3029
GND
J11
W3028
3102
+VL
CN3101
W3022
V+12
W3021
V-12
13.W UP
RY AC
V5.6ST
GNDST
RY B
RY CS
RY HP
RY A
V+12V
V-12V
HP R
HP G
1.HP L
L3001
W3001
L3002
W3002
1.FR
2.NC
RED
W3018
V-12A
C3001
CN3004
WHITE
V+12
1.C
2.FL
W3020
V-12
R3031
L3031
L3051
R3021
L3011
R3032
R3011
R3012
C3031
W3014
GND
Y13A
RY3002
BLK
W3015
W3009
W3008
W3007
C3051
L3021
R3022
C3021
RY3001
W3003
FL
C3011
C3032
W3004
C3012
W3005
GND
W3006
GND
CN3001
FR
C3023
FL
C3013
C
C3033
SR
C3022
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
130
140
150
160
170
180
190
200
210
220
230
X

SIDE A


T Y11B
S Y8A
T Y12B
AD Y5
Y11A
Y8B
Y12A
CN3101
RED
BLU
BLK
C3102
Y11A
Y12A
Y8B
Y13B
BLK
REPLACE WITH SAME TYPE NO.ICP-N15 MFD. BY ROHM CO.,LTD FOR IC3351-3352.
CAUTION
W3032 V+5.6ST
CN3008
W UP
RYAC
V5.6ST
GNDST
GNDST
GNDST
GNDST
GNDST
GNDST
E
PNE-1B1
CN3008
Q CN2001
+VL GAMP GAMP -VL
3102
R3101
R3102
W3029 GND
W3030 GND
J11
W3028 GNDST
YELLOW
CN3005
BOND
W3031 SBL
SBL
LS
W3025 SBR
+VL GAMP -VL
CN3101
W3022 V+12
W3021 V-12
V-12
W3024
BLUE
CN3006
SBR
RS
R3072
R3051
L3051
RS
W3023
RY3003
L3041
R3071
L3071
RY3004
AWX9109
AWX9110
AWX
AWX9107
AWX9108
CN3005
AD Y3
CN3006
AG Y4
NC NC NC NC
CN3007
AWX9052
AWX9053
AWX9054
AWX9055
PS/SP ASS'Y
CN3007
Q CN2002
R3052
C3051
C3052
W3016 SBR
C3071
L3061
R3061
D
Y13A
BLK
W3015 GND
W3009 GND
W3008 GND
W3007 GND
R3041
R3042
C3041
W3017
C3072
GND
W3010
W3012 GND
C3042
W3013 GND
W3011 GND
R3062
KN3001
(ANP7563-C)
SR
C3053
CN3002
SL
C3043
SBR
C3073
SBL
C3063
C3062
C3061
220 230 240 250 260 270 280 290 300 310 320 330

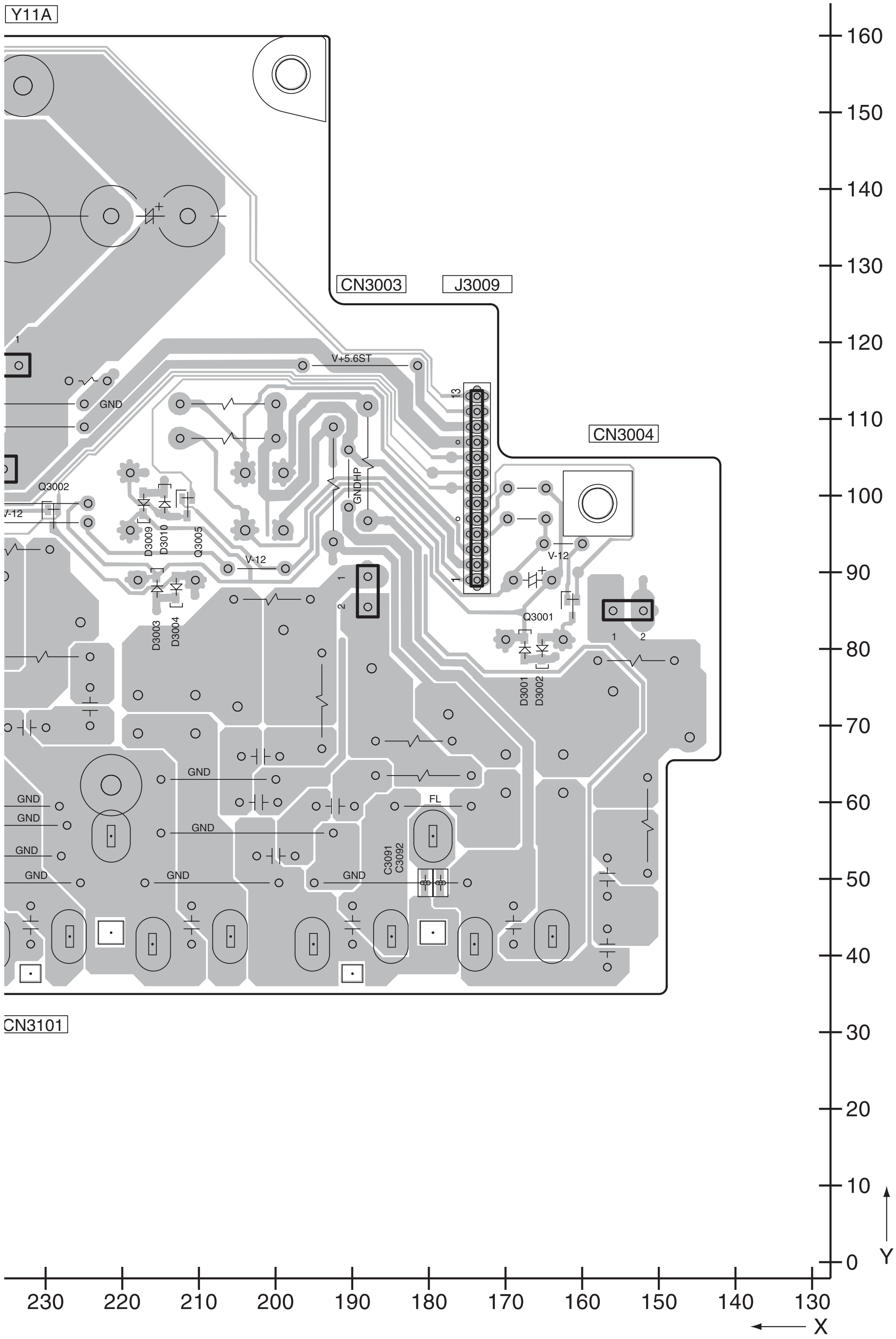
SIDE B

W PS/SP ASSY


Y12A
Y8B
Y11A
PS/SP ASSY
☐ AWX9109
☐ AWX9110
☐ AWX9052
☐ AWX9053
☐ AWX9054
☐ AWX9055
☐ AWX9107
☐ AWX9108
☐ AWX
ICP-N15 DE CHEZ ROHM CO.,LTD.
N'UTILISER QUE LA REFERENCE
DES FUSIBLES IC3351 ET IC3352
EN CAS DE REMPLACEMENT
ATTENTION
LF
W UP
RYAC
V5.6ST
GNDST
GNDST
GNDST
GNDST
GNDST
GNDST
1
9
V+5.6ST
CN3008
CN3005
CN3006
CN3007
PNE-1B1
4
1
GND
GND
GNDST
3
1
SBL
1
2
SBR
V+12
V-12
V-12
Q3002
Q3003
RS
1
2
NC
NC
NC
NC
NC
1
5
Q3004
D3007
D3008
D3005
D3006
SBR
GND
GND
GND
GND
GND
GND
GND
GND
GND
C3095
C3093
C3094
(ANP7563-C)
CN3102
CN3101
330
320
310
300
290
280
270
260
250
240
230
220

SIDE B

A


Y11A
CN3003
J3009
CN3004
CN3101
V+5.6ST
GND
GNDHP
Q3002
V-12
D3009
D3010
Q3005
V-12
D3003
D3004
13
1
1
2
V-12
Q3001
1
2
D3001
D3002
GND
GND
GND
GND
GND
GND
GND
GND
FL
C3091
C3092
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
230
220
210
200
190
180
170
160
150
140
130
X

B

C

D

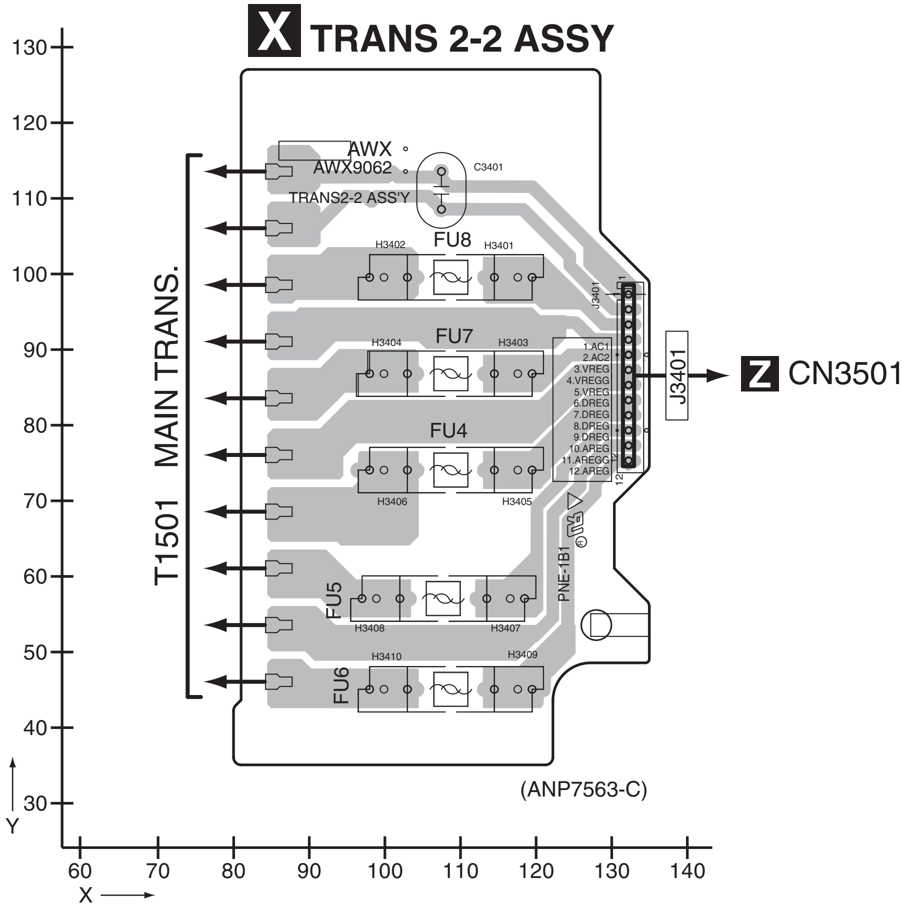
E

F

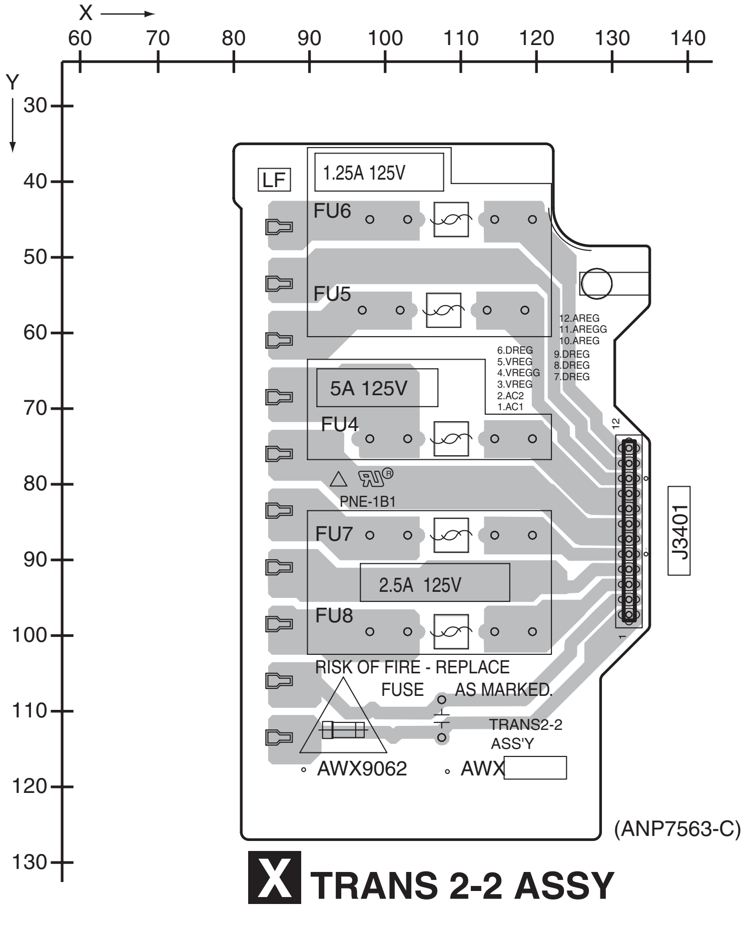
W

11.20 TRANS 2-2 ASSY

SIDE A **SIDE A**

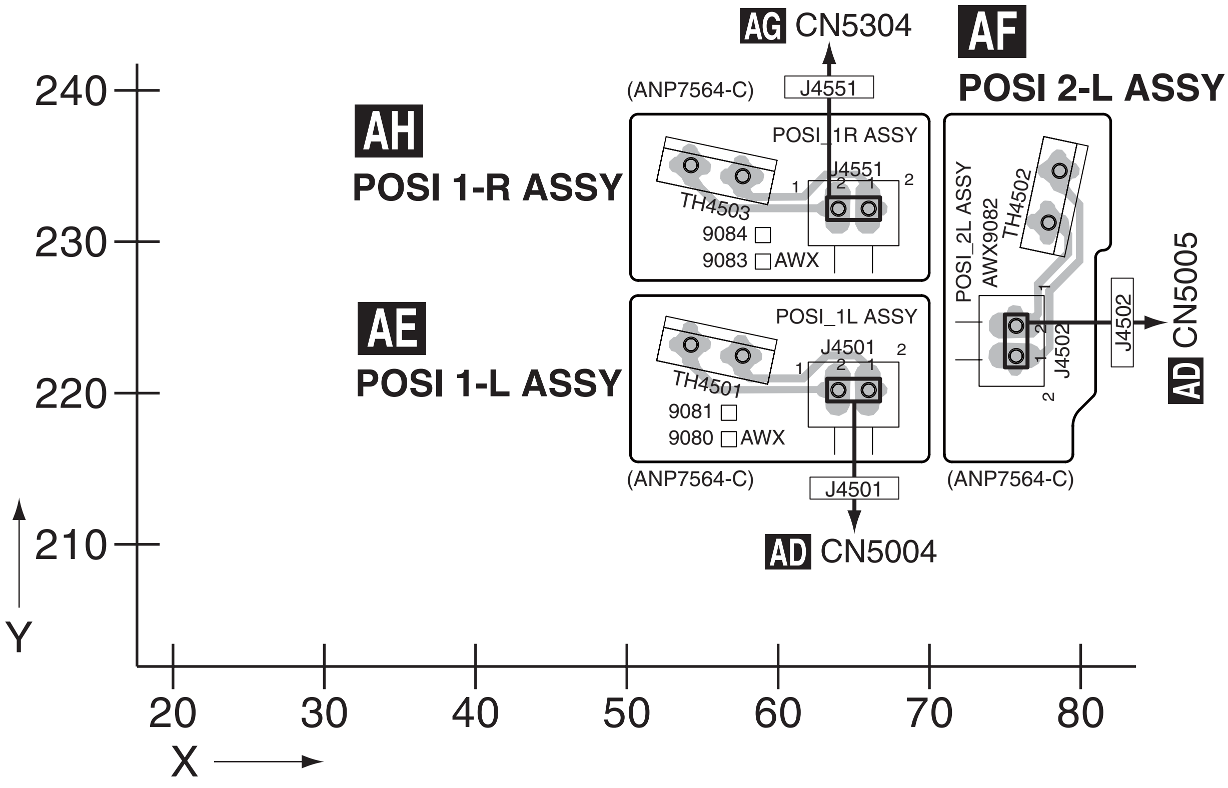

X TRANS 2-2 ASSY
AWX
AWX9062
TRANS2-2 ASS'Y
C3401
FU8
H3402
H3401
FU7
H3404
H3403
FU4
H3406
H3405
FU5
H3408
H3407
FU6
H3410
H3409
T1501 MAIN TRANS.
J3401
1.AC1
2.AC2
3.VREG
4.VREGG
5.VREG
6.DREG
7.DREG
8.DREG
9.DREG
10.AREG
11.AREGG
12.AREG
1
12
PNE-1B1
J3401
Z CN3501
(ANP7563-C)
130
120
110
100
90
80
70
60
50
40
30
Y
60 70 80 90 100 110 120 130 140
X

SIDE B **SIDE B**

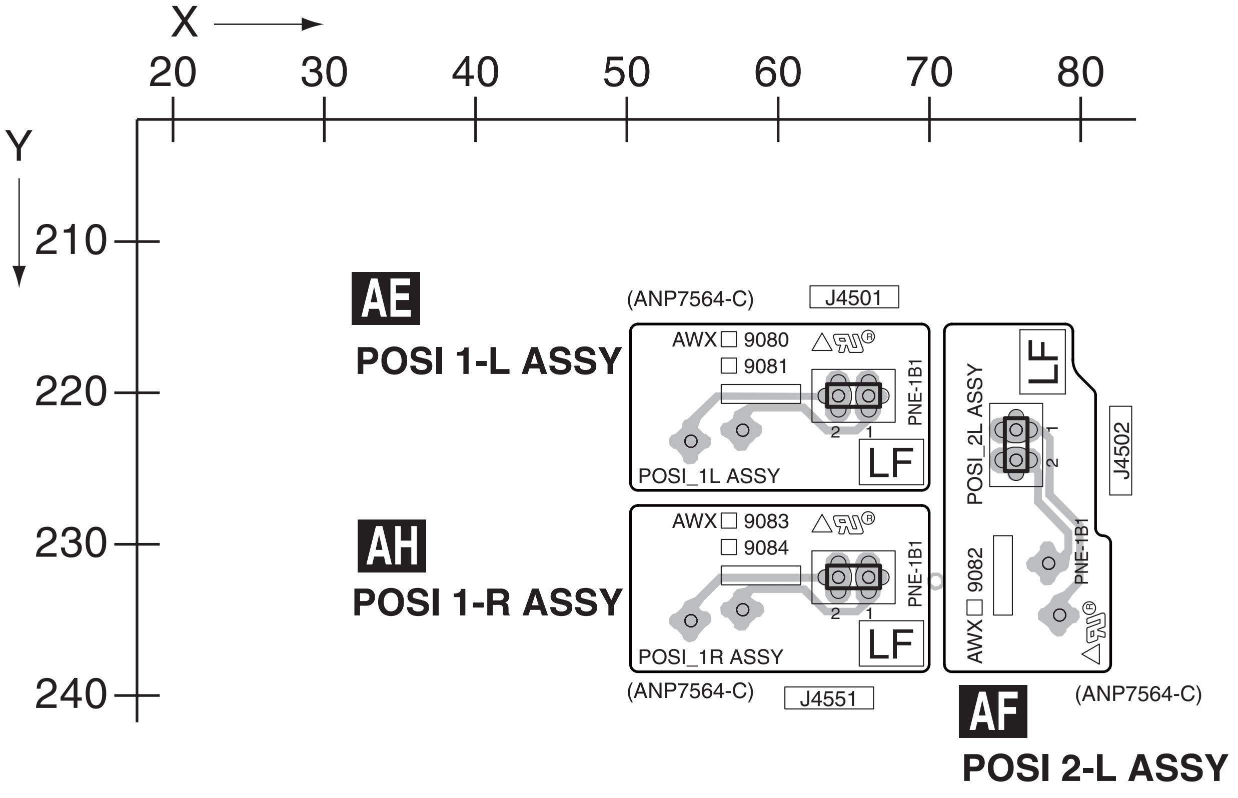

X
60 70 80 90 100 110 120 130 140
Y
30
40
50
60
70
80
90
100
110
120
130
LF
1.25A 125V
FU6
FU5
12.AREG
11.AREGG
10.AREG
9.DREG
8.DREG
7.DREG
6.DREG
5.VREG
4.VREGG
3.VREG
2.AC2
1.AC1
5A 125V
FU4
12
PNE-1B1
FU7
2.5A 125V
FU8
J3401
1
RISK OF FIRE - REPLACE
FUSE AS MARKED.
TRANS2-2
ASS'Y
AWX9062
AWX
(ANP7563-C)
X TRANS 2-2 ASSY

11.21 POSI 1-L, POSI 2-L and POSI 1-R ASSYS

SIDE A **SIDE A**


AG CN5304
AF
POSI 2-L ASSY
(ANP7564-C)
J4551
AH
POSI 1-R ASSY
POSI_1R ASSY
J4551
TH4503
9084 ☐
9083 ☐AWX
AE
POSI 1-L ASSY
POSI_1L ASSY
J4501
TH4501
9081 ☐
9080 ☐AWX
(ANP7564-C)
J4501
AD CN5004
POSI_2L ASSY
AWX9082
TH4502
J4502
J4502
CN5005
AD
(ANP7564-C)
240
230
220
210
Y
20
30
40
50
60
70
80
X

SIDE B **SIDE B**

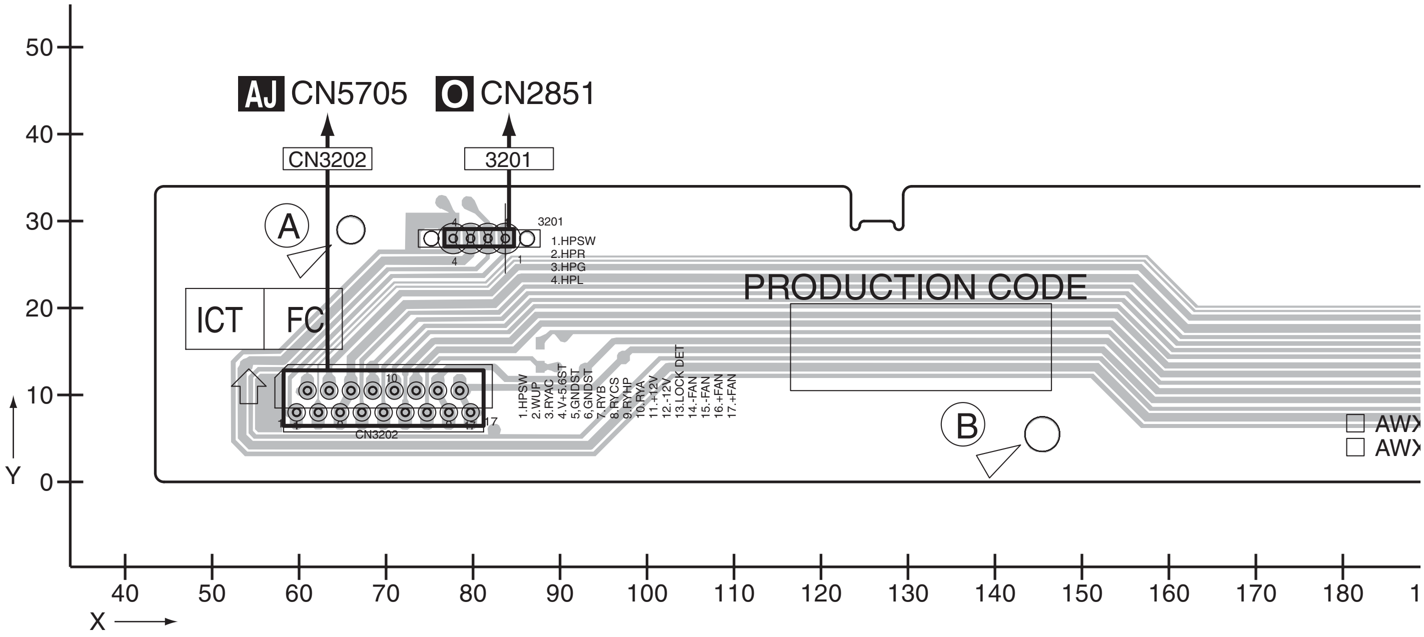

X
20
30
40
50
60
70
80
Y
210
220
230
240
AE
POSI 1-L ASSY
(ANP7564-C)
J4501
AWX☐ 9080
☐ 9081
PNE-1B1
LF
POSI_1L ASSY
AH
POSI 1-R ASSY
AWX☐ 9083
☐ 9084
PNE-1B1
LF
POSI_1R ASSY
(ANP7564-C)
J4551
LF
POSI_2L ASSY
J4502
AWX☐ 9082
PNE-1B1
(ANP7564-C)
AF
POSI 2-L ASSY

AE AF AH **AE AF AH**

11.22 TRANS SIDE ASSY

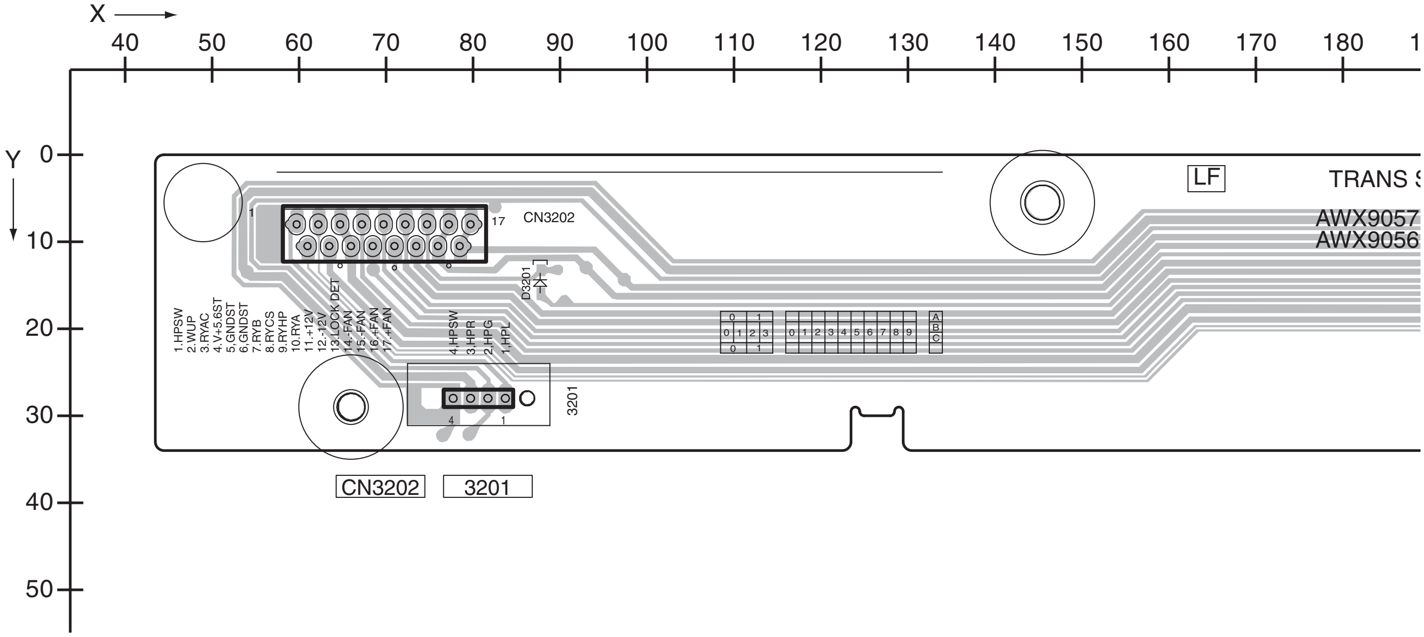
SIDE A

Y TRANS SIDE ASSY

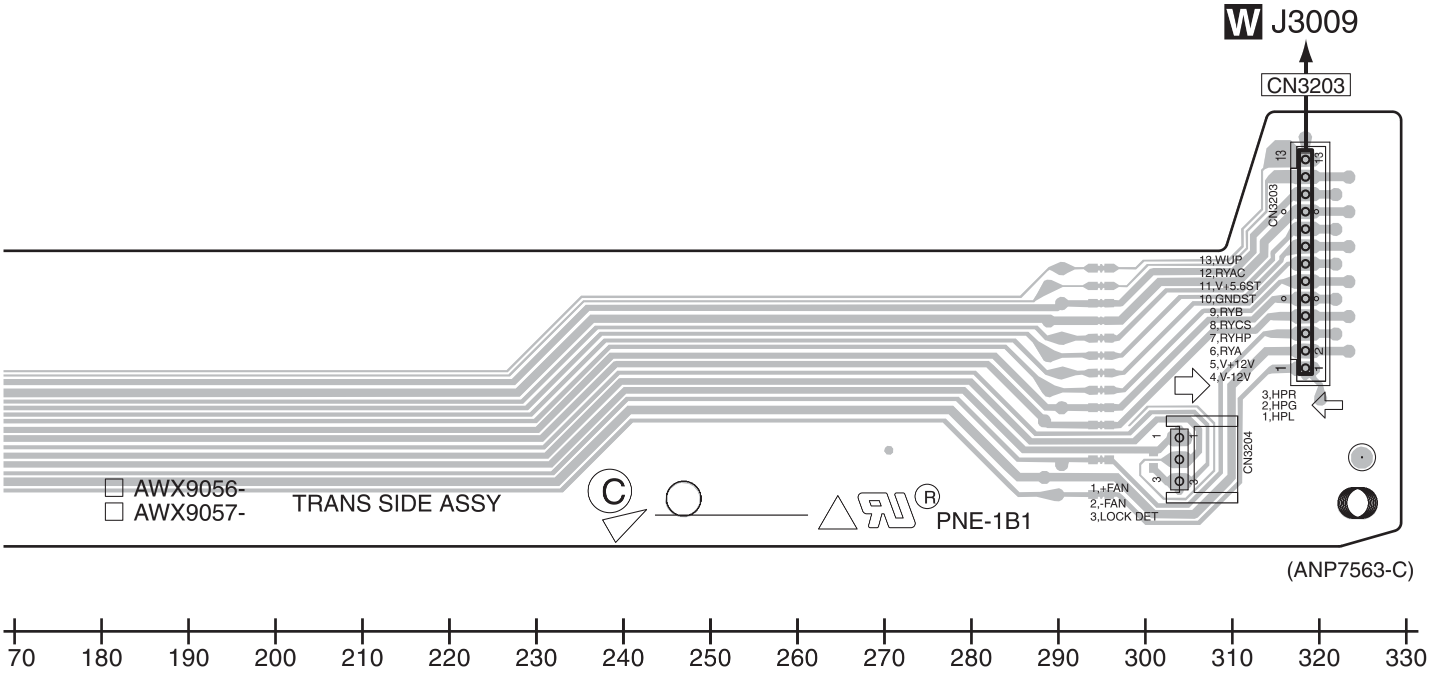

AJ CN5705
O CN2851
CN3202
3201
A
ICT
FC
3201
1.HPSW
2.HPR
3.HPG
4.HPL
PRODUCTION CODE
10
17
CN3202
1.HPSW
2.WUP
3.RYAC
4.V+5.6ST
5.GNDST
6.GNDST
7.RYB
8.RYCS
9.RYHP
10.RYA
11.+12V
12.-12V
13.LOCK DET
14.-FAN
15.-FAN
16.+FAN
17.+FAN
B
☐ AWX
☐ AWX
50
40
30
20
10
0
Y
40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 1
X

SIDE B

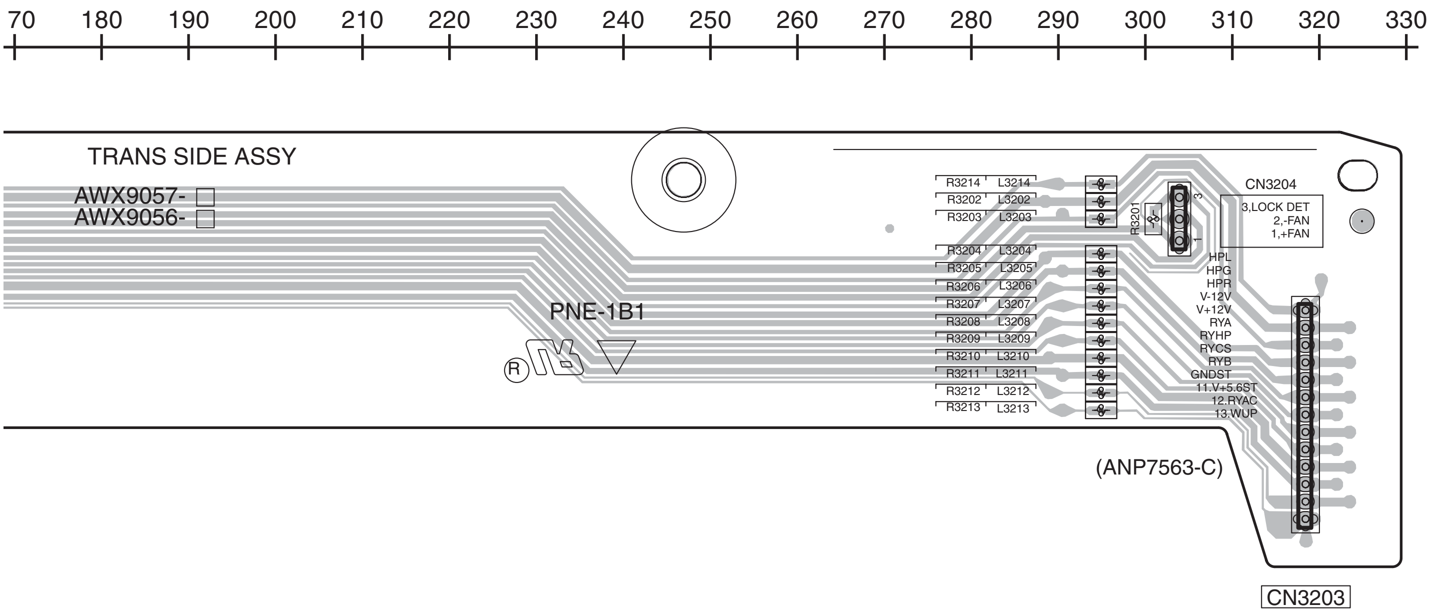
Y TRANS SIDE ASSY


X
40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 1
Y
0
10
20
30
40
50
LF
TRANS S
AWX9057
AWX9056
1
17
CN3202
D3201
1.HPSW
2.WUP
3.RYAC
4.V+5.6ST
5.GNDST
6.GNDST
7.RYB
8.RYCS
9.RYHP
10.RYA
11.+12V
12.-12V
13.LOCK DET
14.-FAN
15.-FAN
16.+FAN
17.+FAN
4.HPSW
3.HPR
2.HPG
1.HPL
3201
CN3202
3201

SIDE A


W J3009
CN3203
13
13
CN3203
1
2
1
13,WUP
12,RYAC
11,V+5.6ST
10,GNDST
9,RYB
8,RYCS
7,RYHP
6,RYA
5,V+12V
4,V-12V
3,HPR
2,HPG
1,HPL
1
1
3
3
CN3204
1,+FAN
2,-FAN
3,LOCK DET
☐ AWX9056-
☐ AWX9057-
TRANS SIDE ASSY
C
PNE-1B1
(ANP7563-C)
70
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330

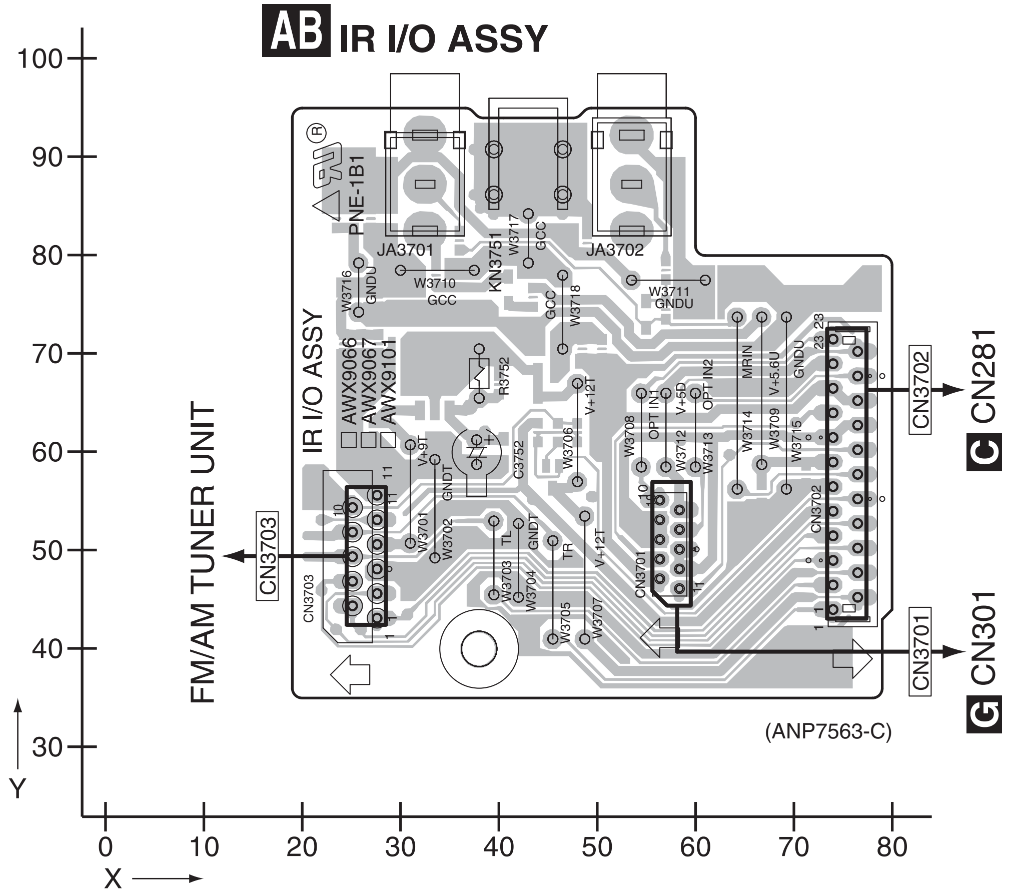
SIDE B


70
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
TRANS SIDE ASSY
AWX9057- ☐
AWX9056- ☐
PNE-1B1
R3214 L3214
R3202 L3202
R3203 L3203
R3204 L3204
R3205 L3205
R3206 L3206
R3207 L3207
R3208 L3208
R3209 L3209
R3210 L3210
R3211 L3211
R3212 L3212
R3213 L3213
R3201
3
1
CN3204
3,LOCK DET
2,-FAN
1,+FAN
HPL
HPG
HPR
V-12V
V+12V
RYA
RYHP
RYCS
RYB
GNDST
11.V+5.6ST
12.RYAC
13.WUP
(ANP7563-C)
CN3203

11.23 IR I/O ASSY

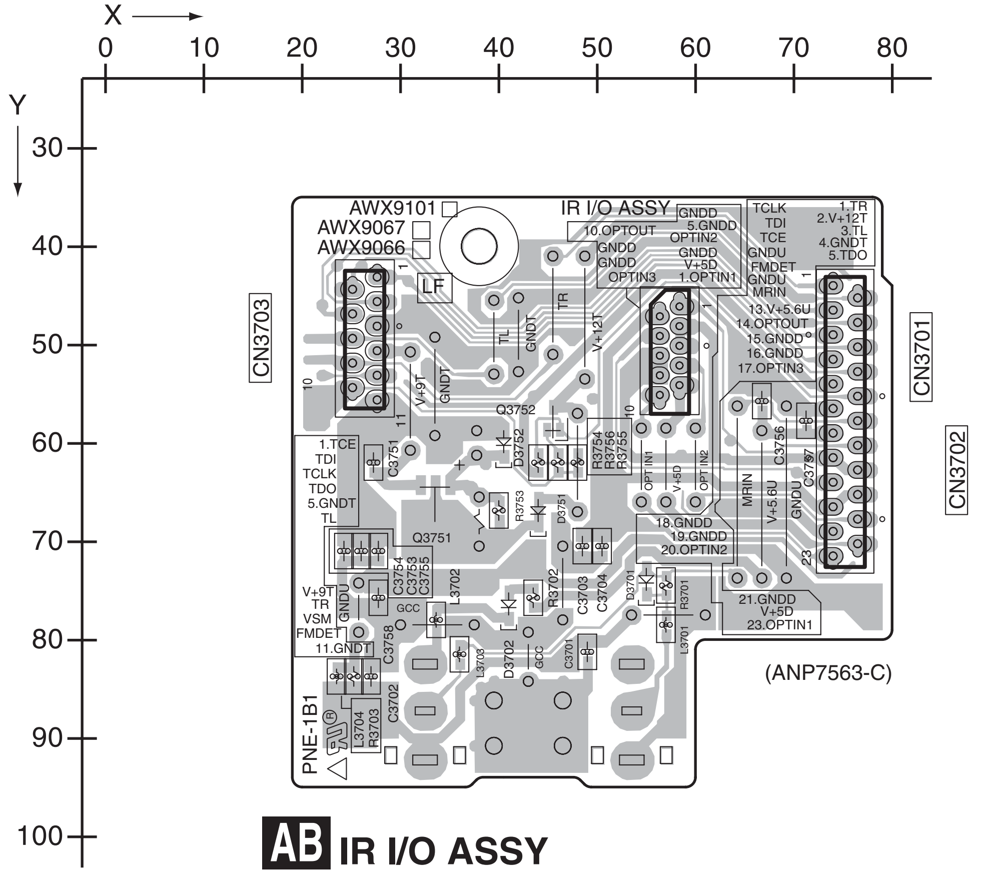
SIDE A

SIDE A


AB IR I/O ASSY
IR I/O ASSY
AWX9066
AWX9067
AWX9101
PNE-1B1
JA3701
JA3702
KN3751
W3716
GNDU
W3710
GCC
W3717
GCC
W3718
W3711
GNDU
R3752
V+12T
V+9T
C3752
W3706
W3708
OPT IN1
V+5D
OPT IN2
W3712
W3713
MRIN
V+5.6U
GNDU
W3714
W3709
W3715
CN3702
CN3703
GNDT
W3701
W3702
TL
GNDT
TR
V+12T
W3703
W3704
W3705
W3707
CN3701
FM/AM TUNER UNIT
CN3703
CN3702
C CN281
CN3701
G CN301
(ANP7563-C)
100
90
80
70
60
50
40
30
Y
0
10
20
30
40
50
60
70
80
X

SIDE B

SIDE B


X
0
10
20
30
40
50
60
70
80
Y
30
40
50
60
70
80
90
100
AWX9101
AWX9067
AWX9066
IR I/O ASSY
10.OPTOUT
GNDD
GNDD
OPTIN3
GNDD
5.GNDD
OPTIN2
GNDD
V+5D
1.OPTIN1
TCLK
TDI
TCE
GNDU
FMDET
GNDU
MRIN
1.TR
2.V+12T
3.TL
4.GNDT
5.TDO
13.V+5.6U
14.OPTOUT
15.GNDD
16.GNDD
17.OPTIN3
LF
CN3703
CN3701
CN3702
TR
TL
GNDT
V+12T
V+9T
GNDT
Q3752
1.TCE
TDI
TCLK
TDO
5.GNDT
TL
C3751
D3752
R3754
R3756
R3755
OPTIN1
V+5D
OPTIN2
MRIN
V+5.6U
GNDU
C3756
C3757
R3753
D3751
Q3751
C3754
C3753
C3755
18.GNDD
19.GNDD
20.OPTIN2
V+9T
TR
VSM
FMDET
11.GNDT
GNDU
GCC
L3702
R3702
C3703
C3704
D3701
R3701
L3701
21.GNDD
V+5D
23.OPTIN1
C3758
L3703
D3702
GCC
C3701
C3702
L3704
R3703
PNE-1B1
(ANP7563-C)
AB IR I/O ASSY

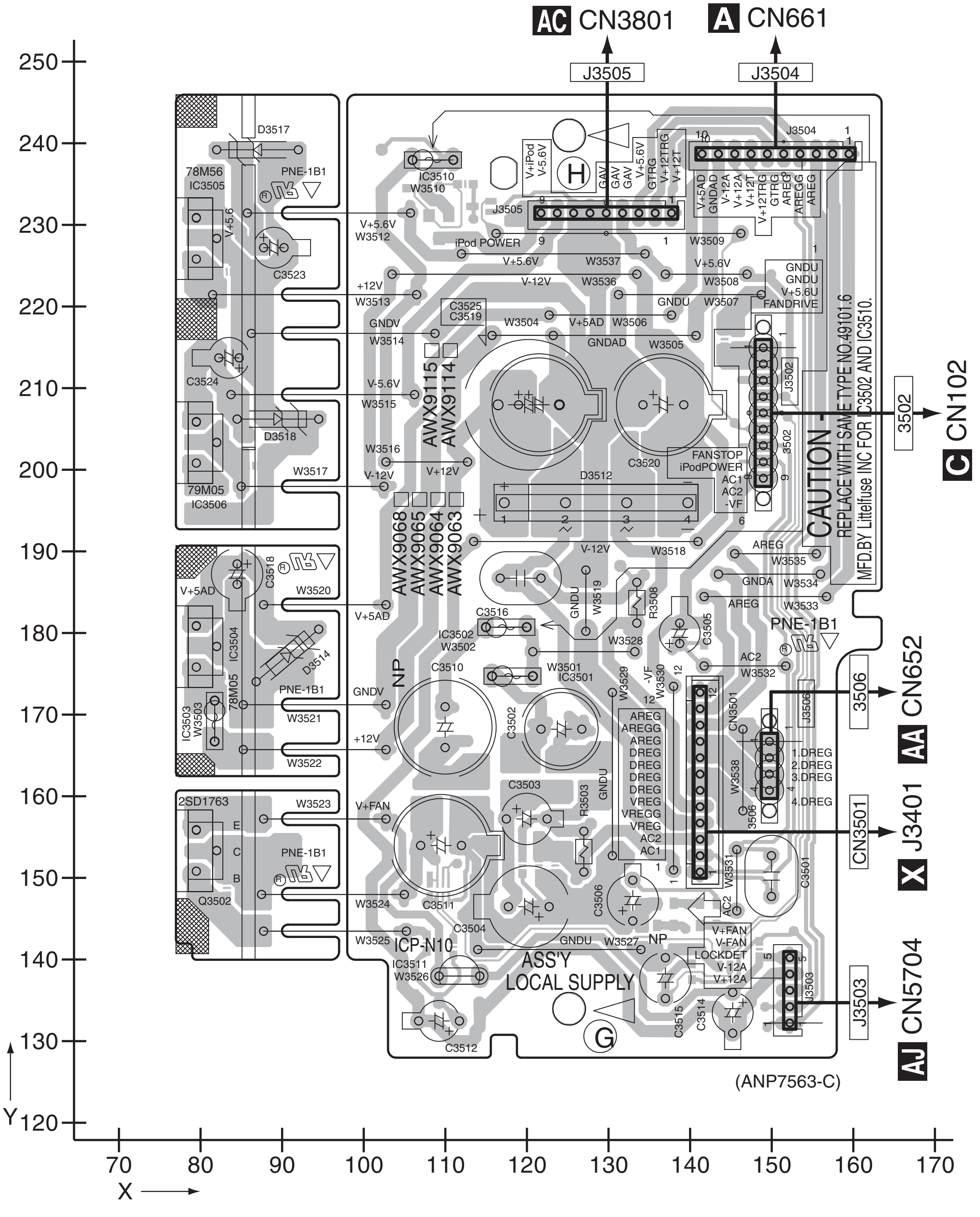
AB

AB

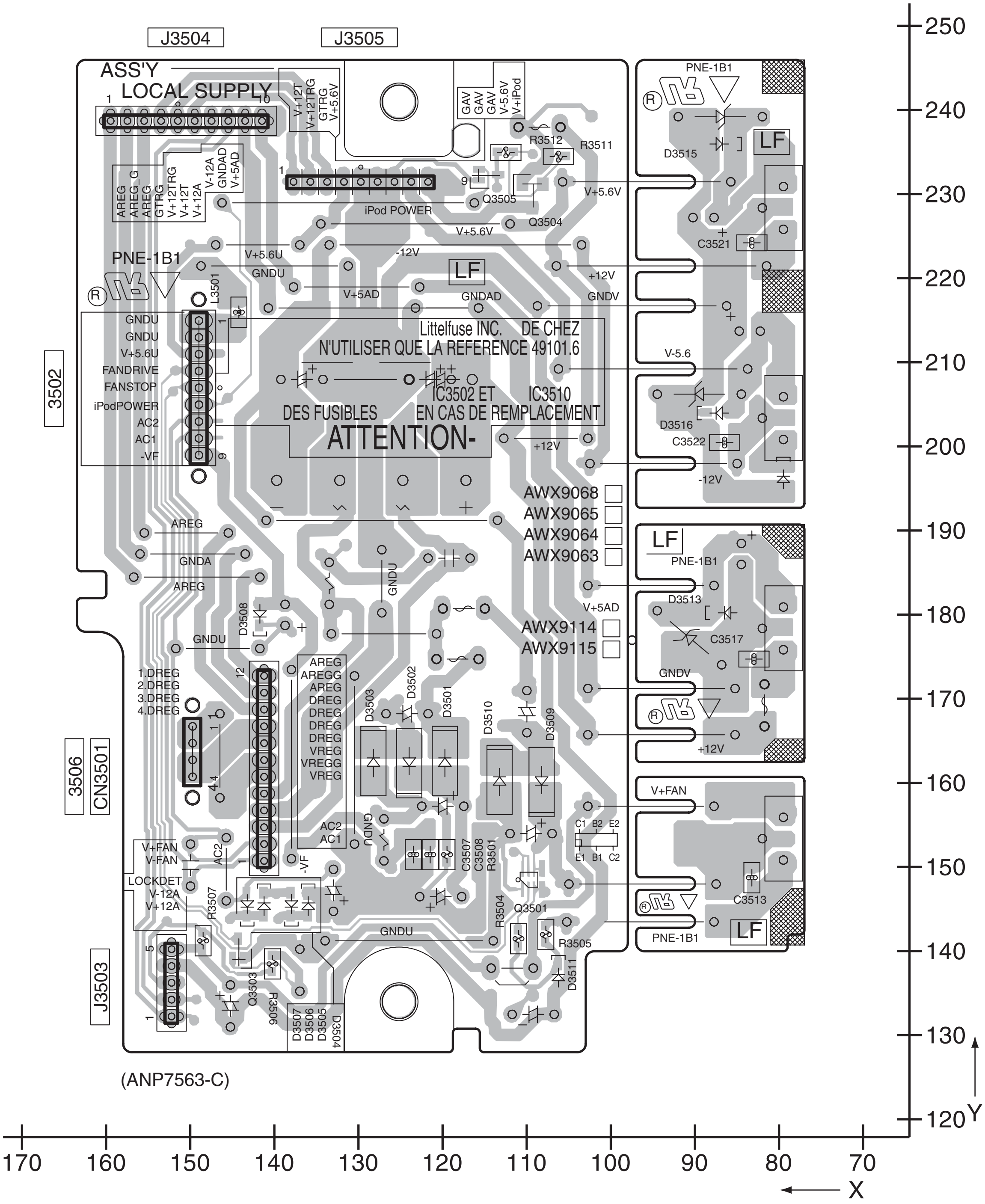
11.24 LOCAL P-SUPPLY ASSY

SIDE A **SIDE A**

Z LOCAL P-SUPPLY ASSY


AC CN3801
J3505
A CN661
J3504
C CN102
3502
AA CN652
3506
X J3401
CN3501
AJ CN5704
J3503
D3517
78M56
IC3505
PNE-1B1
V+5.6
C3523
C3524
D3518
79M05
IC3506
W3517
C3518
V+5AD
W3520
IC3504
D3514
78M05
PNE-1B1
IC3503
W3503
W3521
W3522
2SD1763
W3523
E
C
B
PNE-1B1
Q3502
IC3510
W3510
V+5.6V
W3512
+12V
W3513
GNDV
W3514
V-5.6V
W3515
W3516
V-12V
V+12V
V+5AD
GNDV
+12V
V+FAN
W3524
W3525
ICP-N10
IC3511
W3526
C3512
C3525
C3519
AWX9115
AWX9114
AWX9068
AWX9065
AWX9064
AWX9063
NP
C3516
IC3502
W3502
C3510
W3501
IC3501
C3502
C3503
R3503
C3511
C3504
ASS'Y
LOCAL SUPPLY
G
H
V+iPod
V-5.6V
GAV
GAV
GAV
V+5.6V
GTRG
V+12TRG
V+12T
J3505
9
1
iPod POWER
V+5.6V
V-12V
W3537
W3536
W3504
V+5AD
W3506
GNDAD
W3505
C3520
D3512
FANSTOP
iPodPOWER
AC1
AC2
-VF
6
V+5AD
GNDAD
V-12A
V+12A
V+12T
V+12TRG
GTRG
AREG
AREGG
AREG
W3509
V+5.6V
W3508
GNDU
W3507
GNDU
GNDU
V+5.6U
FANDRIVE
J3502
V-12V
W3518
AREG
W3535
GNDA
W3534
AREG
W3533
GNDU
W3519
R3508
C3505
PNE-1B1
W3528
AC2
W3532
W3529
-VF
W3530
12
AREG
AREGG
AREG
DREG
DREG
DREG
DREG
VREG
VREGG
VREG
AC2
AC1
CN3501
W3538
J3506
1.DREG
2.DREG
3.DREG
4.DREG
W3531
C3501
C3506
AC2
V+FAN
V-FAN
LOCKDET
V-12A
V+12A
GNDU
W3527
NP
C3515
C3514
J3503
5
CAUTION -
REPLACE WITH SAME TYPE NO.49101.6
MFD.BY Littelfuse INC FOR IC3502 AND IC3510.
(ANP7563-C)
250
240
230
220
210
200
190
180
170
160
150
140
130
120
Y
70
80
90
100
110
120
130
140
150
160
170
X

Z LOCAL P-SUPPLY ASSY

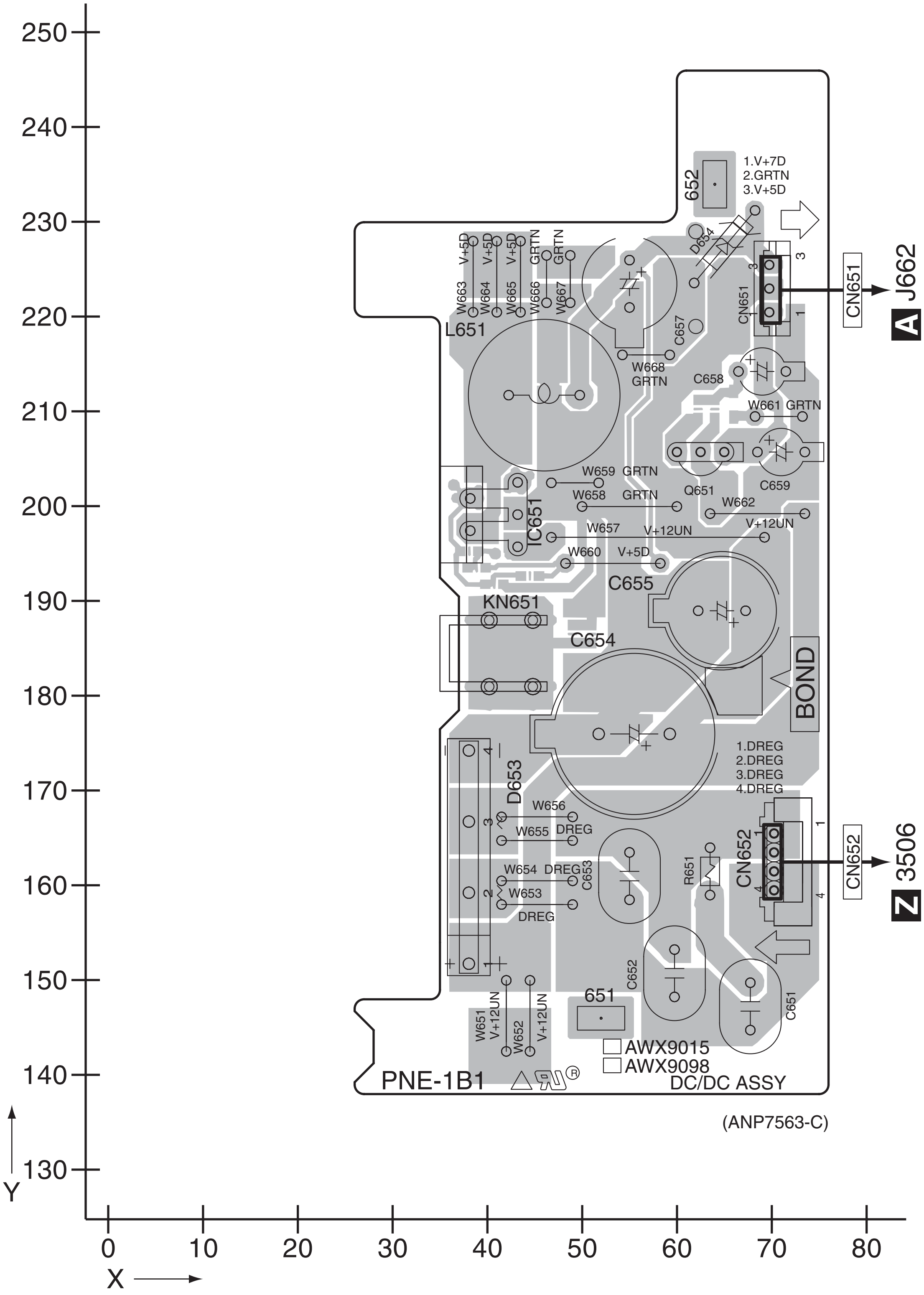

J3504
J3505
ASS'Y
LOCAL SUPPLY
1
10
V+12T
V+12TRG
GTRG
V+5.6V
GAV
GAV
GAV
V-5.6V
V+iPod
R3512
R3511
D3515
LF
PNE-1B1
AREG
AREG_G
AREG
GTRG
V+12TRG
V+12T
V+12A
V-12A
GNDAD
V+5AD
iPod POWER
Q3505
Q3504
V+5.6V
V+5.6V
V+5.6U
-12V
GNDU
LF
+12V
V+5AD
GNDAD
GNDV
C3521
L3501
PNE-1B1
GNDU
GNDU
V+5.6U
FANDRIVE
FANSTOP
iPodPOWER
AC2
AC1
-VF
9
3502
Littelfuse INC. DE CHEZ
N'UTILISER QUE LA REFERENCE 49101.6
IC3502 ET IC3510
DES FUSIBLES EN CAS DE REMPLACEMENT
ATTENTION-
V-5.6
D3516
C3522
+12V
-12V
AWX9068
AWX9065
AWX9064
AWX9063
AREG
GNDA
AREG
GNDU
LF
PNE-1B1
D3513
V+5AD
C3517
AWX9114
AWX9115
D3508
GNDU
12
1.DREG
2.DREG
3.DREG
4.DREG
AREG
AREGG
AREG
DREG
DREG
DREG
DREG
VREG
VREGG
VREG
D3503
D3502
D3501
D3510
D3509
GNDV
+12V
3506
CN3501
1
4
V+FAN
C1 B2 E2
E1 B1 C2
AC2
AC1
GNDU
C3507
C3508
R3501
V+FAN
V-FAN
LOCKDET
V-12A
V+12A
AC2
-VF
R3507
C3513
R3504
Q3501
PNE-1B1
LF
GNDU
R3505
D3511
J3503
5
1
Q3503
R3506
D3507
D3506
D3505
D3504
(ANP7563-C)
250
240
230
220
210
200
190
180
170
160
150
140
130
120
Y
170
160
150
140
130
120
110
100
90
80
70
X

11.25 DC/DC ASSY

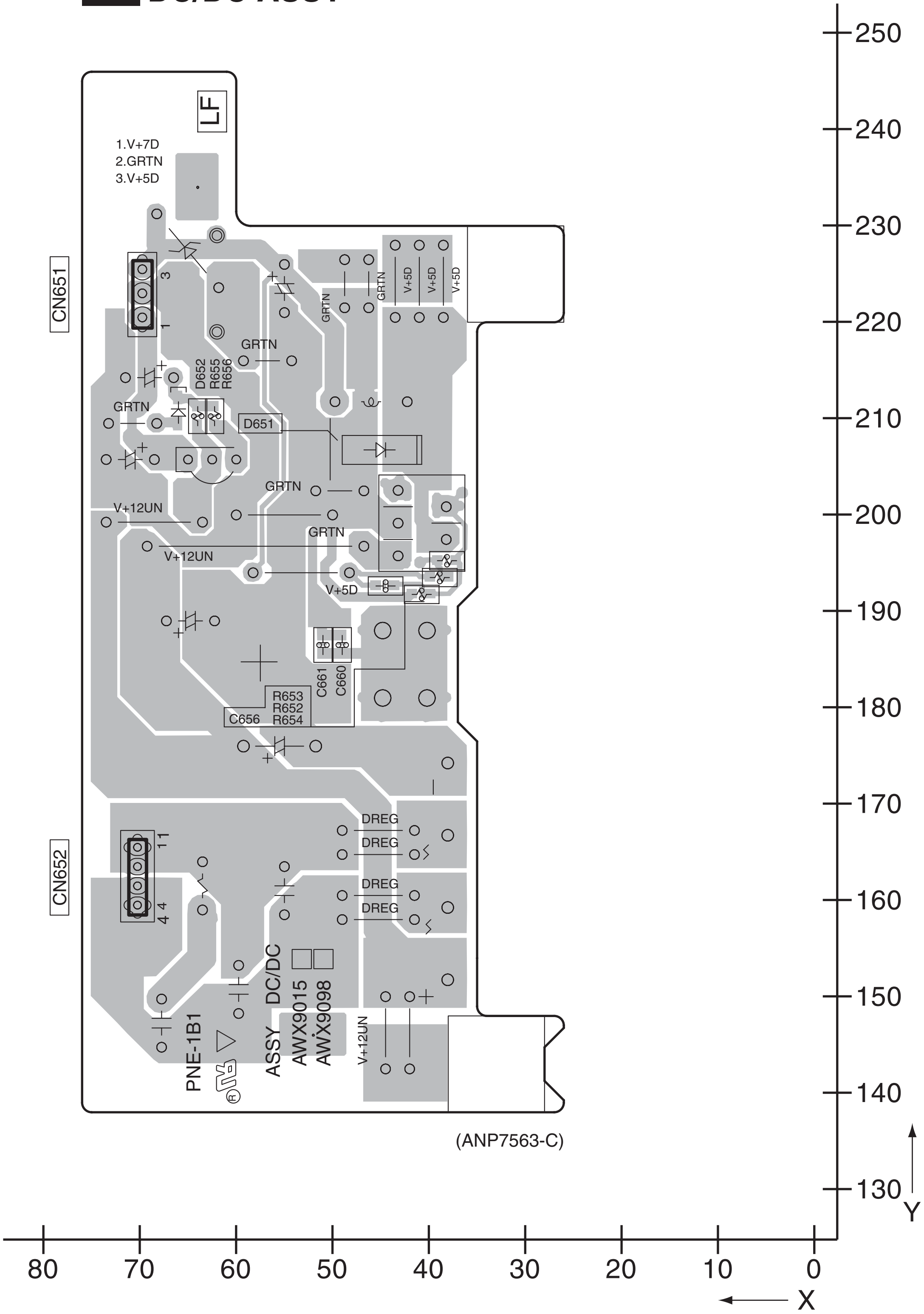
SIDE A

SIDE A

AA DC/DC ASSY


250
240
230
220
210
200
190
180
170
160
150
140
130
Y
0
10
20
30
40
50
60
70
80
X
652
1.V+7D
2.GRTN
3.V+5D
D654
CN651
J662
A
V+5D
V+5D
V+5D
GRTN
GRTN
W663
W664
W665
W666
W667
L651
C657
W668
GRTN
C658
W661 GRTN
Q651
C659
W659 GRTN
W658 GRTN
W662
V+12UN
IC651
W657 V+12UN
W660 V+5D
C655
KN651
C654
BOND
1.DREG
2.DREG
3.DREG
4.DREG
D653
W656
W655 DREG
W654 DREG
C653
W653
DREG
R651
CN652
3506
Z
C652
C651
651
W651 V+12UN
W652 V+12UN
AWX9015
AWX9098
PNE-1B1
DC/DC ASSY
(ANP7563-C)

AA DC/DC ASSY


LF
1.V+7D
2.GRTN
3.V+5D
CN651
3
1
GRTN
V+5D
V+5D
V+5D
GRTN
GRTN
D652
R655
R656
GRTN
D651
GRTN
V+12UN
V+12UN
GRTN
V+5D
C661
C660
R653
R652
R654
C656
CN652
11
4 4
DREG
DREG
DREG
DREG
DC/DC
ASSY
AWX9015
AWX9098
PNE-1B1
V+12UN
250
240
230
220
210
200
190
180
170
160
150
140
130
Y
80
70
60
50
40
30
20
10
0
X

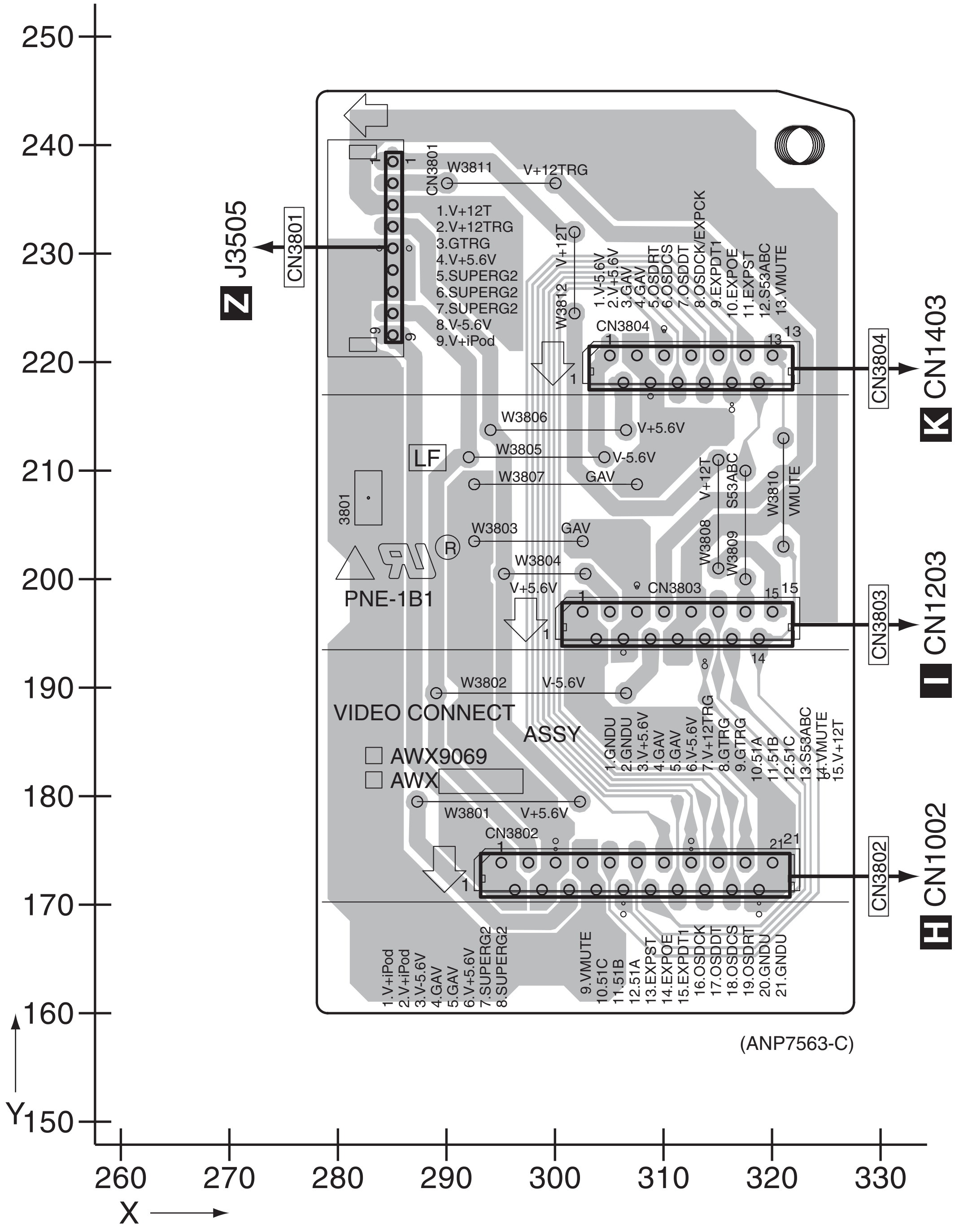
(ANP7563-C)

11.26 VIDEO CONNECT ASSY

SIDE A

SIDE A

AC VIDEO CONNECT ASSY



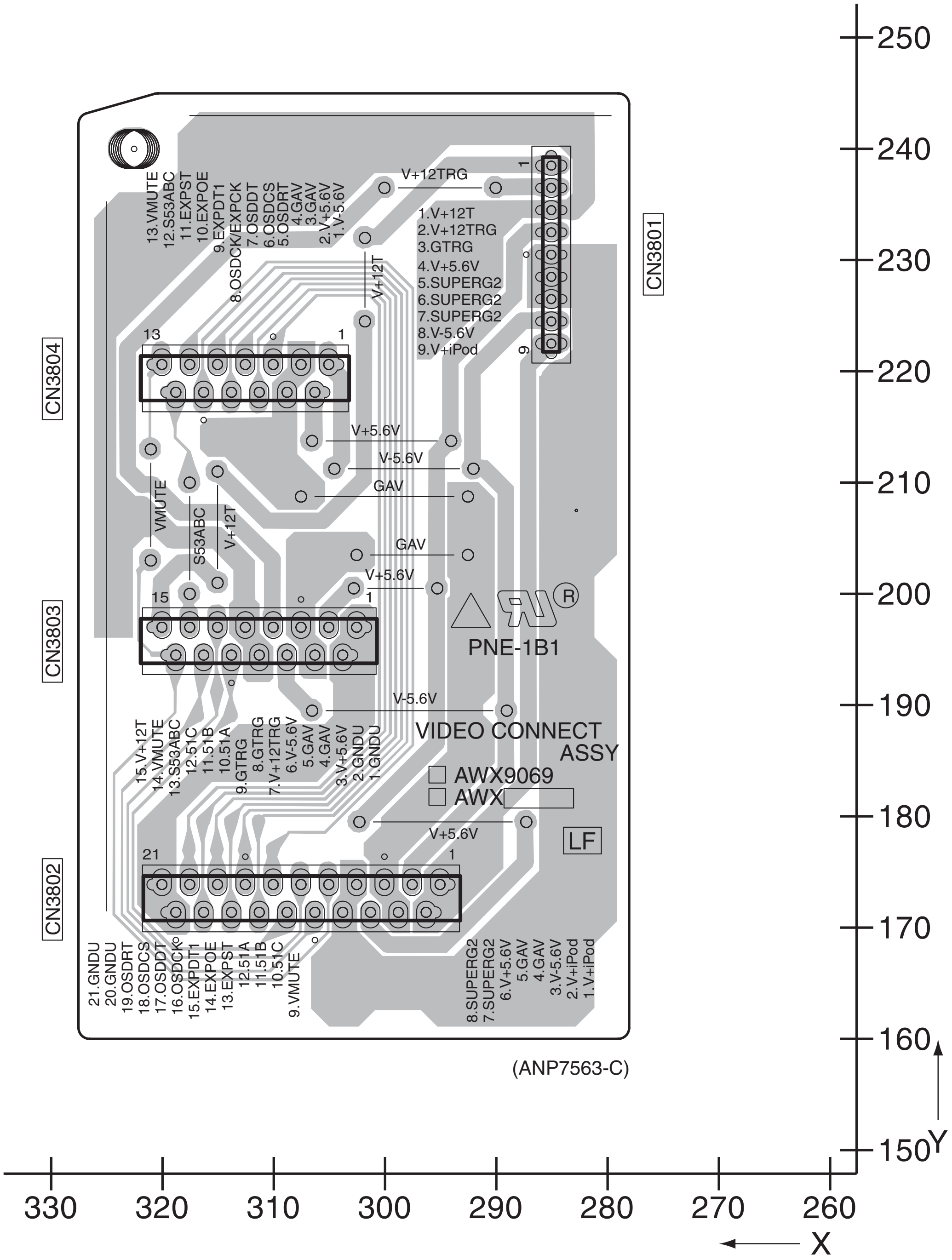
250
240
230
220
210
200
190
180
170
160
150
Y
260
270
280
290
300
310
320
330
X
Z J3505
CN3801
1.V+12T
2.V+12TRG
3.GTRG
4.V+5.6V
5.SUPERG2
6.SUPERG2
7.SUPERG2
8.V-5.6V
9.V+iPod
W3811
V+12TRG
V+12T
W3812
1.V-5.6V
2.V+5.6V
3.GAV
4.GAV
5.OSDRT
6.OSDCS
7.OSDDT
8.OSDCK/EXPCK
9.EXPDT1
10.EXPOE
11.EXPST
12.S53ABC
13.VMUTE
CN3804
CN3804
K CN1403
W3806
V+5.6V
W3805
V-5.6V
W3807
GAV
LF
3801
V+12T
S53ABC
W3810
VMUTE
W3808
W3809
W3803
GAV
W3804
V+5.6V
PNE-1B1
CN3803
CN3803
I CN1203
W3802
V-5.6V
VIDEO CONNECT
ASSY
☐ AWX9069
☐ AWX
1.GNDU
2.GNDU
3.V+5.6V
4.GAV
5.GAV
6.V-5.6V
7.V+12TRG
8.GTRG
9.GTRG
10.51A
11.51B
12.51C
13.S53ABC
14.VMUTE
15.V+12T
W3801
V+5.6V
CN3802
CN3802
H CN1002
1.V+iPod
2.V+iPod
3.V-5.6V
4.GAV
5.GAV
6.V+5.6V
7.SUPERG2
8.SUPERG2
9.VMUTE
10.51C
11.51B
12.51A
13.EXPST
14.EXPOE
15.EXPDT1
16.OSDCK
17.OSDDT
18.OSDCS
19.OSDRT
20.GNDU
21.GNDU

(ANP7563-C)

AC

AC

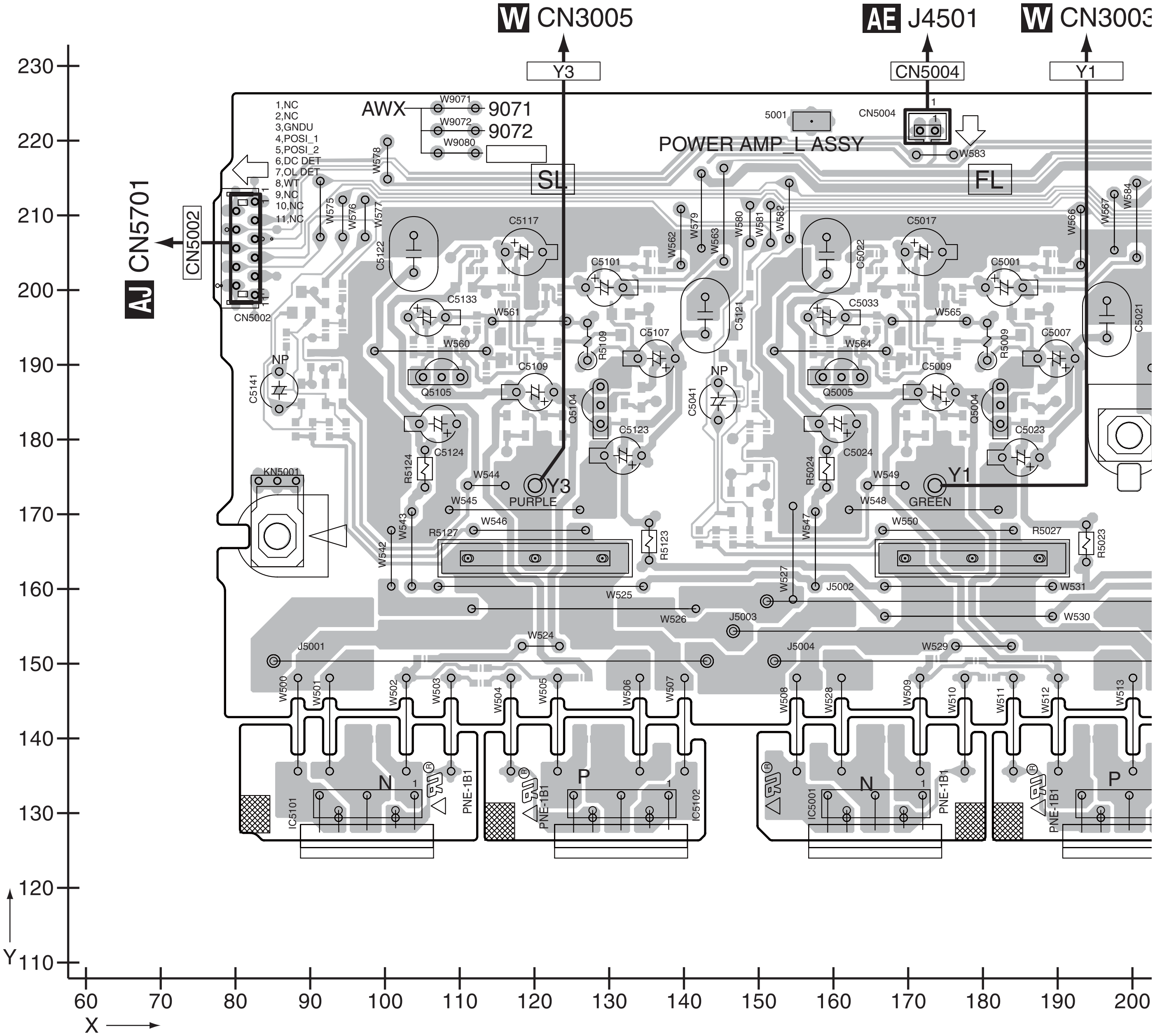
AC VIDEO CONNECT ASSY


CN3801
1.V+12T
2.V+12TRG
3.GTRG
4.V+5.6V
5.SUPERG2
6.SUPERG2
7.SUPERG2
8.V-5.6V
9.V+iPod
V+12TRG
V+12T
CN3804
13.VMUTE
12.S53ABC
11.EXPST
10.EXPOE
9.EXPDT1
8.OSDCK/EXPCK
7.OSDDT
6.OSDCS
5.OSDRT
4.GAV
3.GAV
2.V+5.6V
1.V-5.6V
V+5.6V
V-5.6V
GAV
VMUTE
S53ABC
V+12T
GAV
V+5.6V
CN3803
15.V+12T
14.VMUTE
13.S53ABC
12.51C
11.51B
10.51A
9.GTRG
8.GTRG
7.V+12TRG
6.V-5.6V
5.GAV
4.GAV
3.V+5.6V
2.GNDU
1.GNDU
PNE-1B1
V-5.6V
VIDEO CONNECT ASSY
☐ AWX9069
☐ AWX
V+5.6V
LF
CN3802
21.GNDU
20.GNDU
19.OSDRT
18.OSDCS
17.OSDDT
16.OSDCK
15.EXPDT1
14.EXPOE
13.EXPST
12.51A
11.51B
10.51C
9.VMUTE
8.SUPERG2
7.SUPERG2
6.V+5.6V
5.GAV
4.GAV
3.V-5.6V
2.V+iPod
1.V+iPod
(ANP7563-C)
250
240
230
220
210
200
190
180
170
160
150
Y
330
320
310
300
290
280
270
260
X

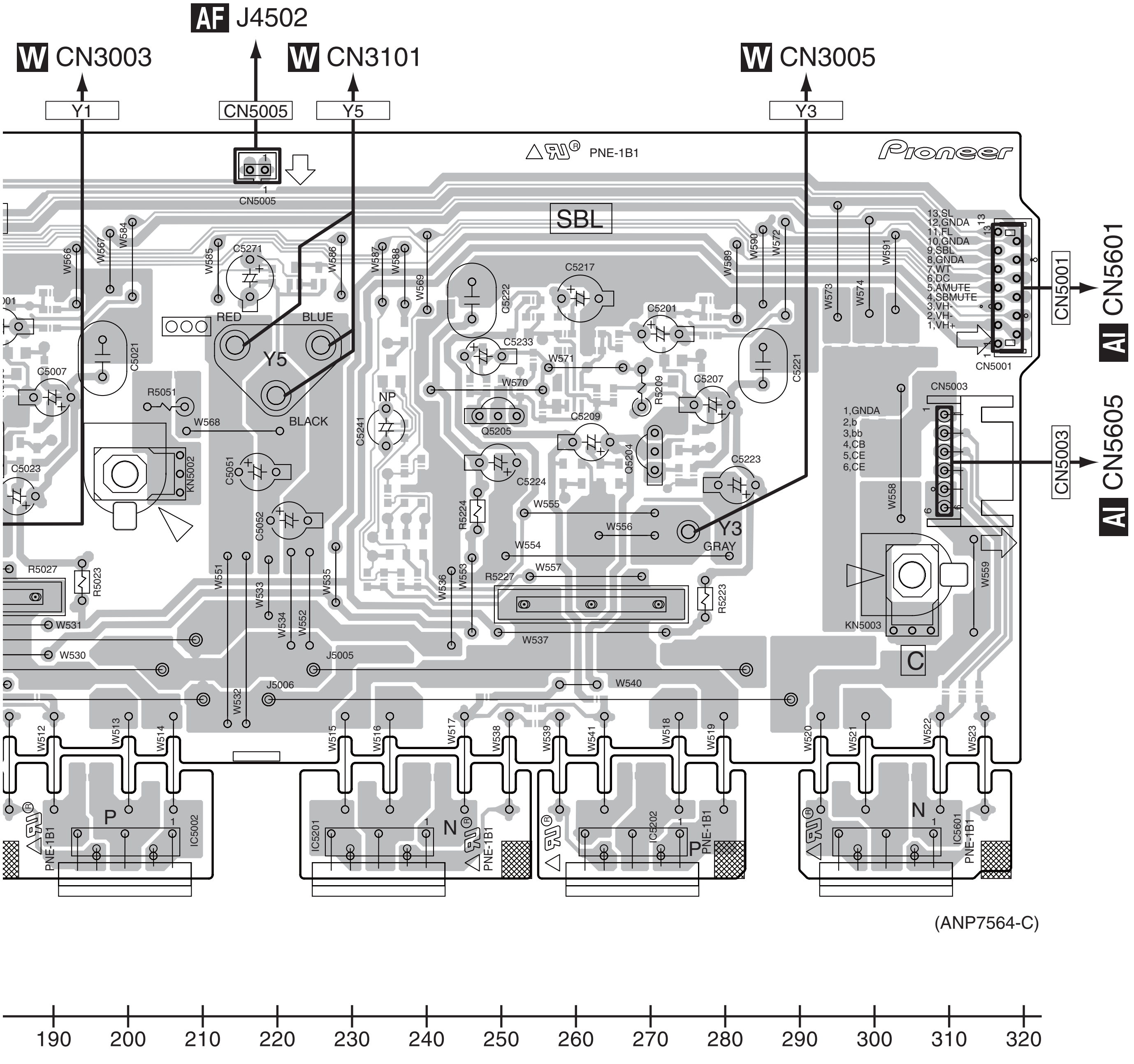
11.27 POWER AMP-L ASSY

SIDE A

AD POWER AMP-L ASSY


W CN3005
Y3
AE J4501
CN5004
W CN3003
Y1
AJ CN5701
CN5002
1,NC
2,NC
3,GNDU
4,POSI_1
5,POSI_2
6,DC DET
7,OL DET
8,WT
9,NC
10,NC
11,NC
AWX
W9071 9071
W9072 9072
W9080
5001
CN5004
POWER AMP_L ASSY
W583
SL
FL
C5117
C5122
C5101
C5133
C5107
C5109
C5123
C5124
C5141
NP
Q5105
Q5104
R5109
R5124
R5127
R5123
C5121
C5041
NP
C5017
C5022
C5001
C5033
C5007
C5009
C5023
C5024
C5021
Q5005
Q5004
R5009
R5024
R5027
R5023
KN5001
PURPLE
GREEN
W575
W576
W577
W578
W579
W580
W581
W582
W584
W562
W563
W566
W567
W560
W561
W564
W565
W542
W543
W544
W545
W546
W547
W548
W549
W550
W524
W525
W526
W527
W529
W530
W531
J5001
J5002
J5003
J5004
W500
W501
W502
W503
W504
W505
W506
W507
W508
W528
W509
W510
W511
W512
W513
IC5101
IC5102
IC5001
N
P
PNE-1B1
230
220
210
200
190
180
170
160
150
140
130
120
110
Y
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
X

SIDE A


AF J4502
W CN3003
W CN3101
W CN3005
Y1
CN5005
Y5
Y3
PNE-1B1
Pioneer
SBL
13,SL
12,GNDA
11,FL
10,GNDA
9,SBL
8,GNDA
7,WT
6,DC
5,AMUTE
4,SBMUTE
3,VH-
2,VH-
1,VH+
CN5001
AI CN5601
1,GNDA
2,b
3,bb
4,CB
5,CE
6,CE
CN5003
AI CN5605
RED
BLUE
BLACK
GRAY
NP
C5271
C5217
C5222
C5201
C5233
C5021
C5007
C5023
C5051
C5052
C5241
C5209
C5207
C5221
C5223
C5224
R5051
R5209
R5224
R5227
R5223
R5027
R5023
Q5205
Q5204
KN5002
KN5003
W566
W567
W584
W585
W586
W587
W588
W569
W589
W590
W572
W573
W574
W591
W571
W570
W568
W555
W556
W554
W557
W551
W533
W535
W536
W553
W534
W552
W531
W530
W532
W537
W540
W558
W559
J5005
J5006
W512
W513
W514
W515
W516
W517
W538
W539
W541
W518
W519
W520
W521
W522
W523
P
N
C
IC5002
IC5201
IC5202
IC5601
190
200
210
220
230
240
250
260
270
280
290
300
310
320

(ANP7564-C)

A

SIDE B

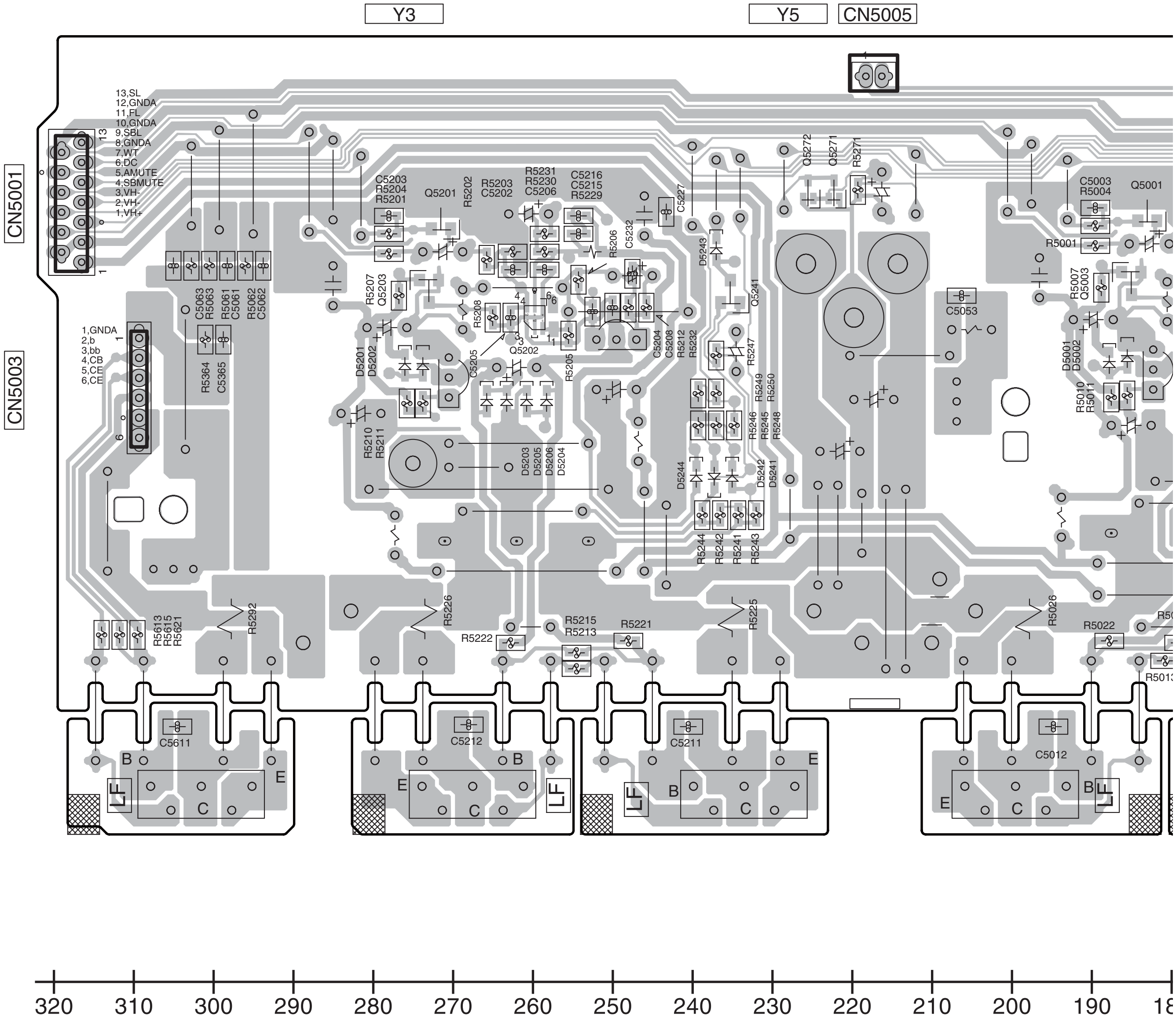
AD POWER AMP-L ASSY

B

C

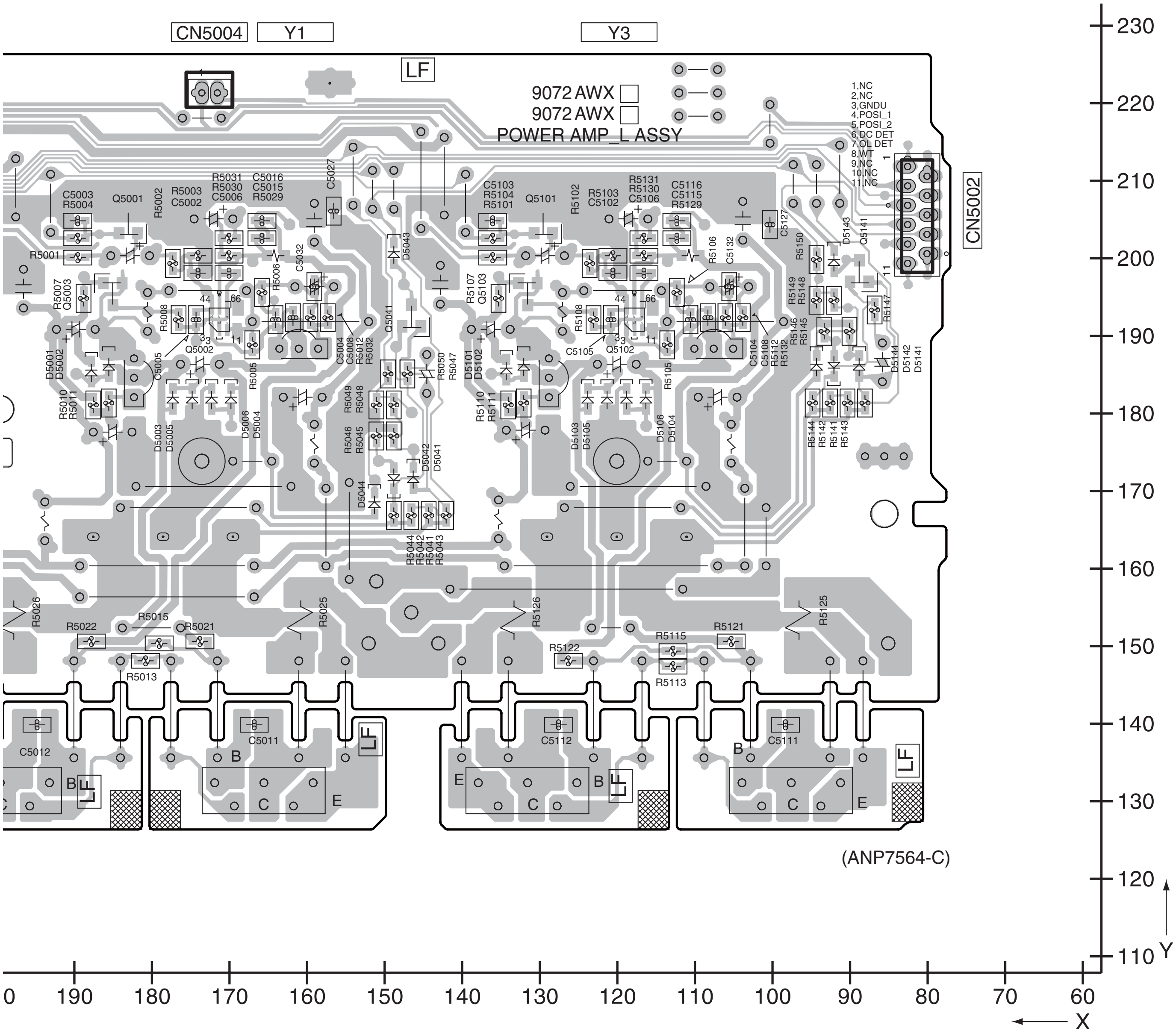
D

E


Y3
Y5
CN5005
CN5001
13,SL
12,GNDA
11,FL
10,GNDA
9,SBL
8,GNDA
7,WT
6,DC
5,AMUTE
4,SBMUTE
3,VH-
2,VH-
1,VH+
13
1
CN5003
1,GNDA
2,b
3,bb
4,CB
5,CE
6,CE
1
6
C5063
R5063
R5061
C5061
R5062
C5062
R5364
C5365
C5203
R5204
R5201
Q5201
R5202
R5203
C5202
R5231
R5230
C5206
C5216
C5215
R5229
R5206
C5232
C5227
D5243
Q5272
Q5271
R5271
Q5241
R5207
Q5203
R5208
Q5202
R5205
C5204
C5208
R5212
R5232
R5247
D5201
D5202
C5205
R5249
R5250
R5246
R5245
R5248
R5210
R5211
D5203
D5205
D5206
D5204
D5244
D5242
D5241
R5244
R5242
R5241
R5243
C5003
R5004
Q5001
R5001
R5007
Q5003
C5053
D5001
D5002
R5010
R5011
R5613
R5615
R5621
R5292
R5226
R5222
R5215
R5213
R5221
R5225
R5026
R5022
R5013
C5611
C5212
C5211
C5012
B
E
C
LF
320
310
300
290
280
270
260
250
240
230
220
210
200
190

F

SIDE B

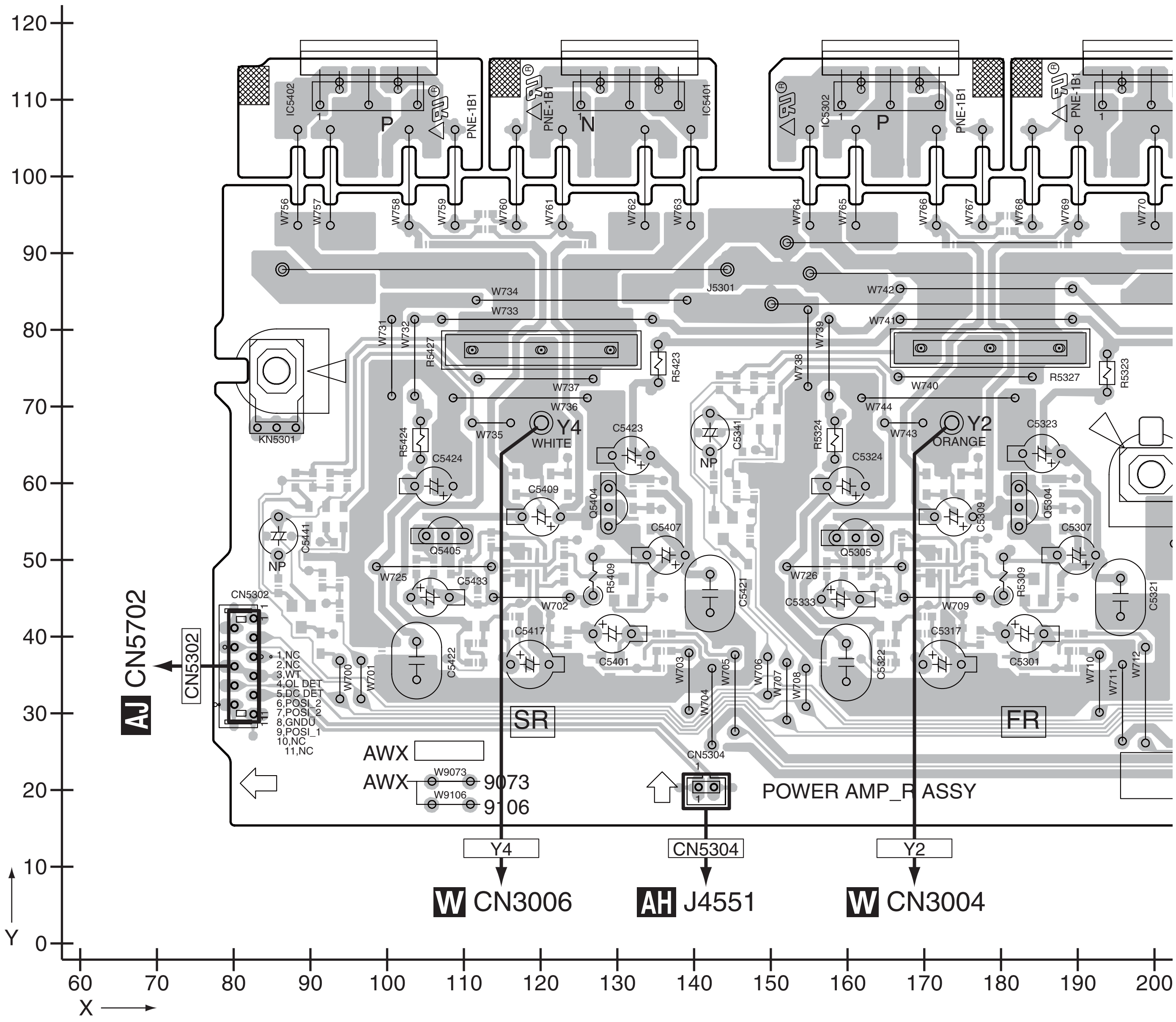


CN5004
Y1
Y3
LF
9072 AWX
9072 AWX
POWER AMP_L ASSY
1,NC
2,NC
3,GNDU
4,POSI_1
5,POSI_2
6,DC DET
7,OL DET
8,WT
9,NC
10,NC
11,NC
CN5002
C5003
R5004
Q5001
R5002
R5003
C5002
R5031
R5030
C5006
C5016
C5015
R5029
C5027
R5001
R5007
Q5003
R5008
Q5002
C5005
R5006
C5032
R5005
C5004
C5008
R5012
R5032
Q5041
D5043
D5001
D5002
R5010
R5011
D5003
D5005
D5006
D5004
R5049
R5048
R5046
R5045
R5050
R5047
D5042
D5041
D5044
R5044
R5042
R5041
R5043
C5103
R5104
R5101
Q5101
R5102
R5103
C5102
R5131
R5130
C5106
C5116
C5115
R5129
R5106
C5132
R5107
Q5103
R5108
C5105
Q5102
R5105
C5104
C5108
R5112
R5132
D5101
D5102
R5110
R5111
D5103
D5105
D5106
D5104
C5127
R5150
D5143
Q5141
R5149
R5148
R5146
R5145
R5147
D5144
D5142
D5141
R5144
R5142
R5141
R5143
R5026
R5022
R5015
R5021
R5013
R5025
R5126
R5122
R5115
R5113
R5121
R5125
C5012
C5011
C5112
C5111
B
C
E
(ANP7564-C)
230
220
210
200
190
180
170
160
150
140
130
120
110
Y
0
190
180
170
160
150
140
130
120
110
100
90
80
70
60
X

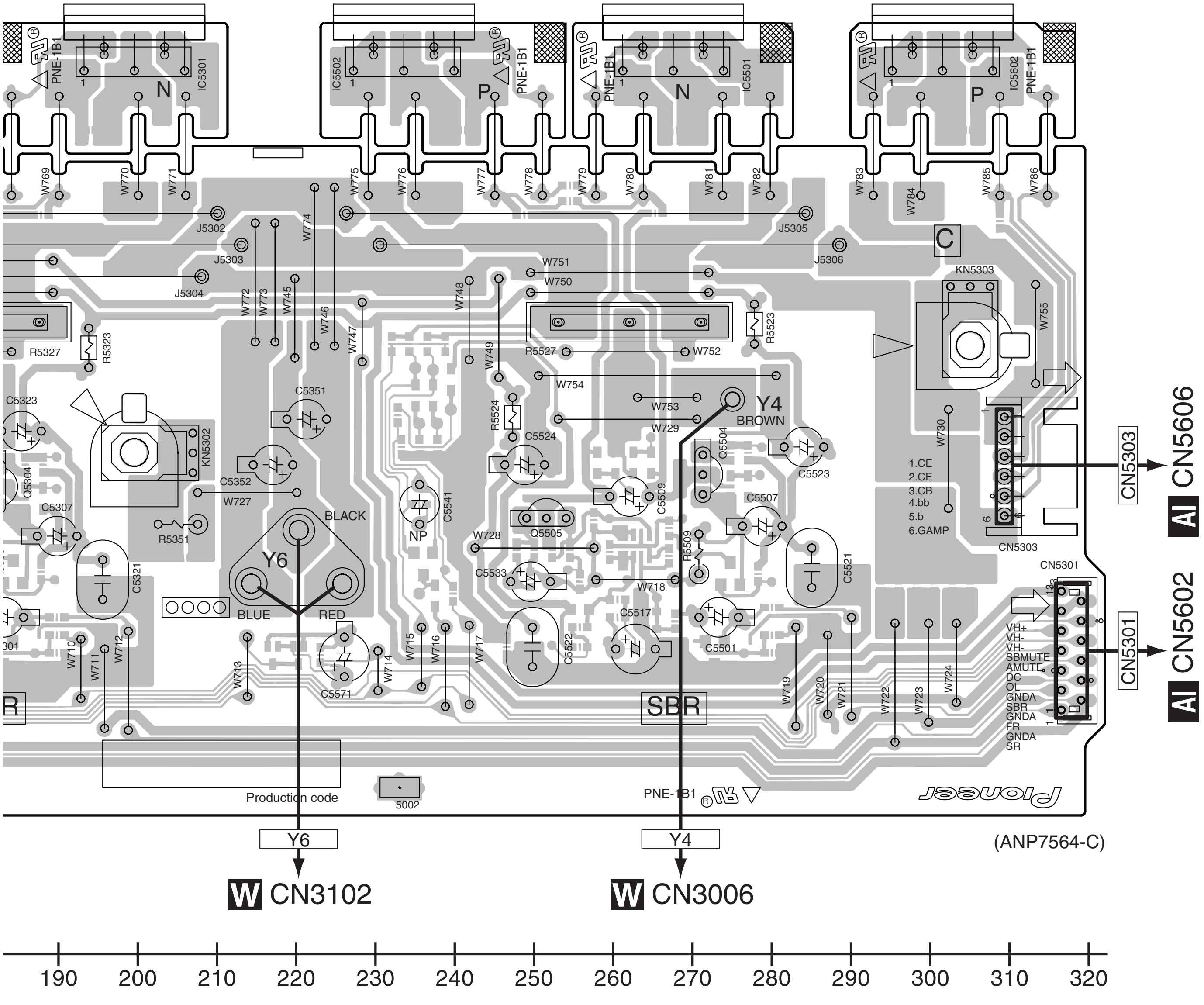
11.28 POWER AMP-R ASSY

SIDE A

AG POWER AMP-R ASSY


IC5402
P
PNE-1B1
N
IC5401
IC5302
W756
W757
W758
W759
W760
W761
W762
W763
W764
W765
W766
W767
W768
W769
W770
J5301
W734
W733
W742
W741
W731
W732
R5427
R5423
W738
W739
R5327
R5323
W737
W736
W740
W744
KN5301
W735
Y4
WHITE
C5423
C5341
NP
R5324
W743
Y2
ORANGE
C5323
R5424
C5424
C5324
C5409
Q5404
C5309
Q5304
C5441
C5407
C5307
Q5405
Q5305
NP
W725
C5433
R5409
C5421
W726
R5309
C5321
W702
C5333
W709
CN5302
C5417
C5401
C5317
C5301
C5422
W703
W704
W705
W706
W707
W708
C5322
W710
W711
W712
W700
W701
1,NC
2,NC
3,WT
4,OL DET
5,DC DET
6,POSI_2
7,POSI_2
8,GNDU
9,POSI_1
10,NC
11,NC
CN5302
AJ CN5702
SR
FR
AWX
AWX
W9073
W9106
9073
9106
CN5304
POWER AMP_R ASSY
Y4
CN5304
Y2
W CN3006
AH J4551
W CN3004
Y
X
0
10
20
30
40
50
60
70
80
90
100
110
120
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200

SIDE A



IC5301
IC5502
IC5501
IC5602
PNE-1B1
N
P
N
P
J5302
J5303
J5304
J5305
J5306
C
KN5303
KN5302
R5327
R5323
R5523
R5527
R5524
R5351
R5509
C5323
C5307
C5321
C5351
C5352
C5524
C5509
C5507
C5523
C5521
C5533
C5517
C5501
C5522
C5571
C5541
NP
Q5304
Q5504
Q5505
Y4
BROWN
Y6
BLACK
BLUE
RED
W727
W728
W729
W730
W745
W746
W747
W748
W749
W750
W751
W752
W753
W754
W755
W769
W770
W771
W772
W773
W774
W775
W776
W777
W778
W779
W780
W781
W782
W783
W784
W785
W786
W710
W711
W712
W713
W714
W715
W716
W717
W718
W719
W720
W721
W722
W723
W724
1.CE
2.CE
3.CB
4.bb
5.b
6.GAMP
CN5303
CN5301
VH+
VH+
VH-
SBMUTE
AMUTE
DC
OL
GNDA
SBR
GNDA
FR
GNDA
SR
CN5303
AI CN5606
CN5301
AI CN5602
SBR
R
Production code
5002
PNE-1B1
Pioneer
Y6
Y4
(ANP7564-C)
W CN3102
W CN3006
190
200
210
220
230
240
250
260
270
280
290
300
310
320

AG

SIDE B

A

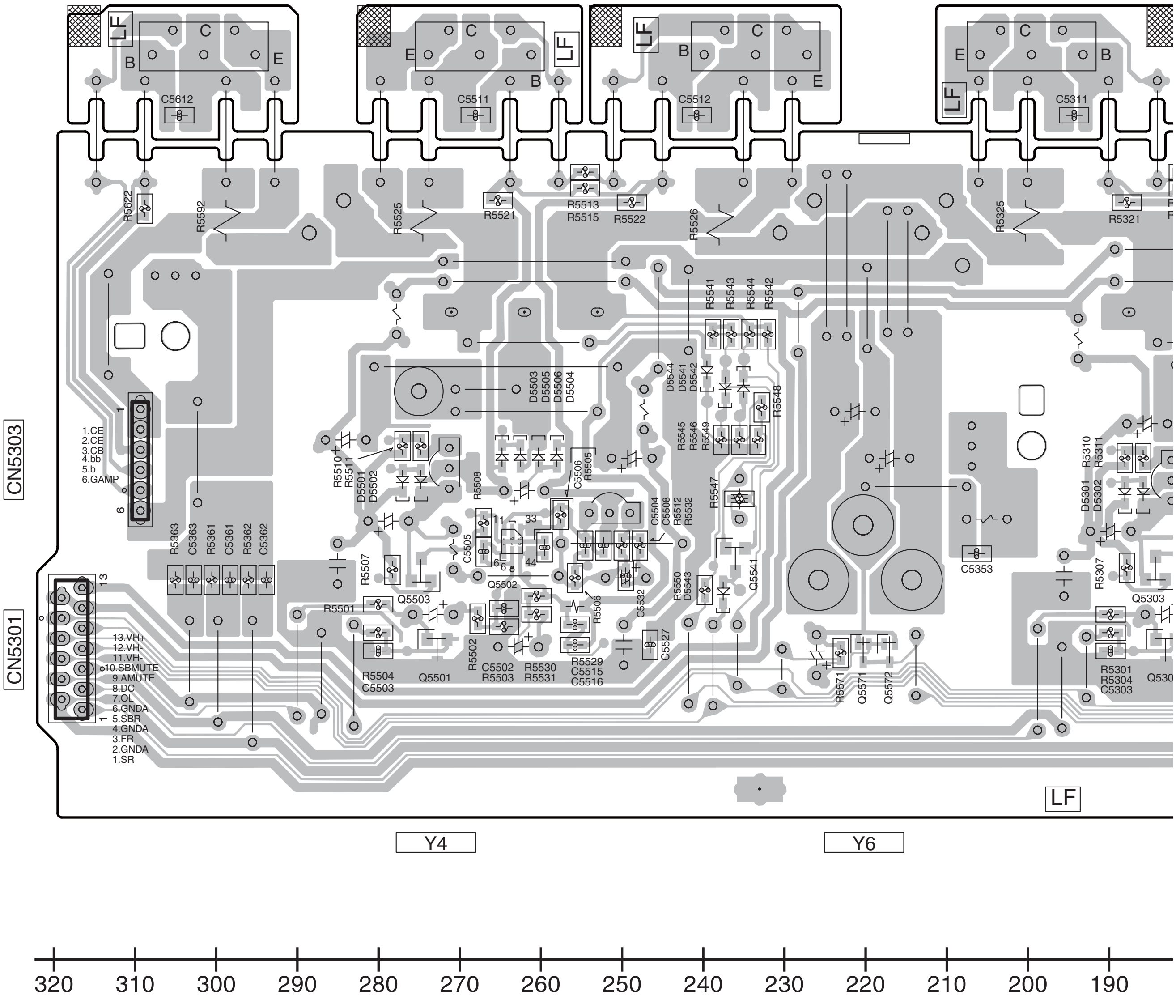
B

AG POWER AMP-R ASSY

C

D

E

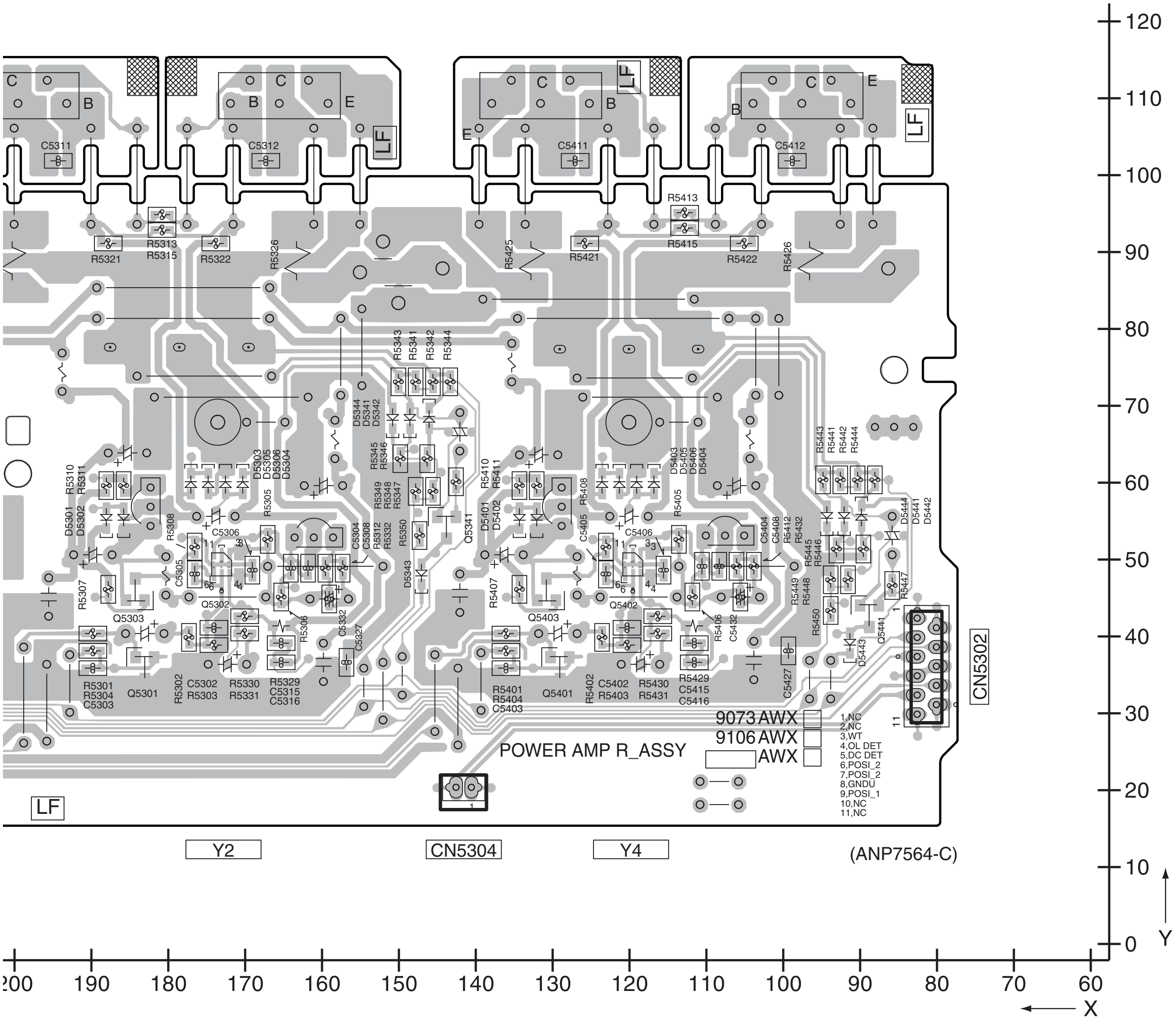


LF
B
C
E
C5612
C5511
C5512
C5311
R5622
R5592
R5525
R5521
R5513
R5515
R5522
R5526
R5325
R5321
R5541
R5543
R5544
R5542
D5503
D5505
D5506
D5504
D5544
D5541
D5542
R5548
R5545
R5546
R5549
CN5303
1.CE
2.CE
3.CB
4.bb
5.b
6.GAMP
R5510
R5511
D5501
D5502
R5508
C5506
R5505
R5547
C5504
C5508
R5512
R5532
R5310
R5311
D5301
D5302
R5363
C5363
R5361
C5361
R5362
C5362
R5507
C5505
Q5502
C5353
R5307
Q5303
CN5301
13.VH+
12.VH-
11.VH-
10.SBMUTE
9.AMUTE
8.DC
7.OL
6.GNDA
5.SBR
4.GNDA
3.FR
2.GNDA
1.SR
R5501
Q5503
R5506
C5532
R5550
D5543
Q5541
C5527
R5504
C5503
Q5501
R5502
C5502
R5503
R5530
R5531
R5529
C5515
C5516
R5571
Q5571
Q5572
R5301
R5304
C5303
Y4
Y6
320
310
300
290
280
270
260
250
240
230
220
210
200
190

F

AG

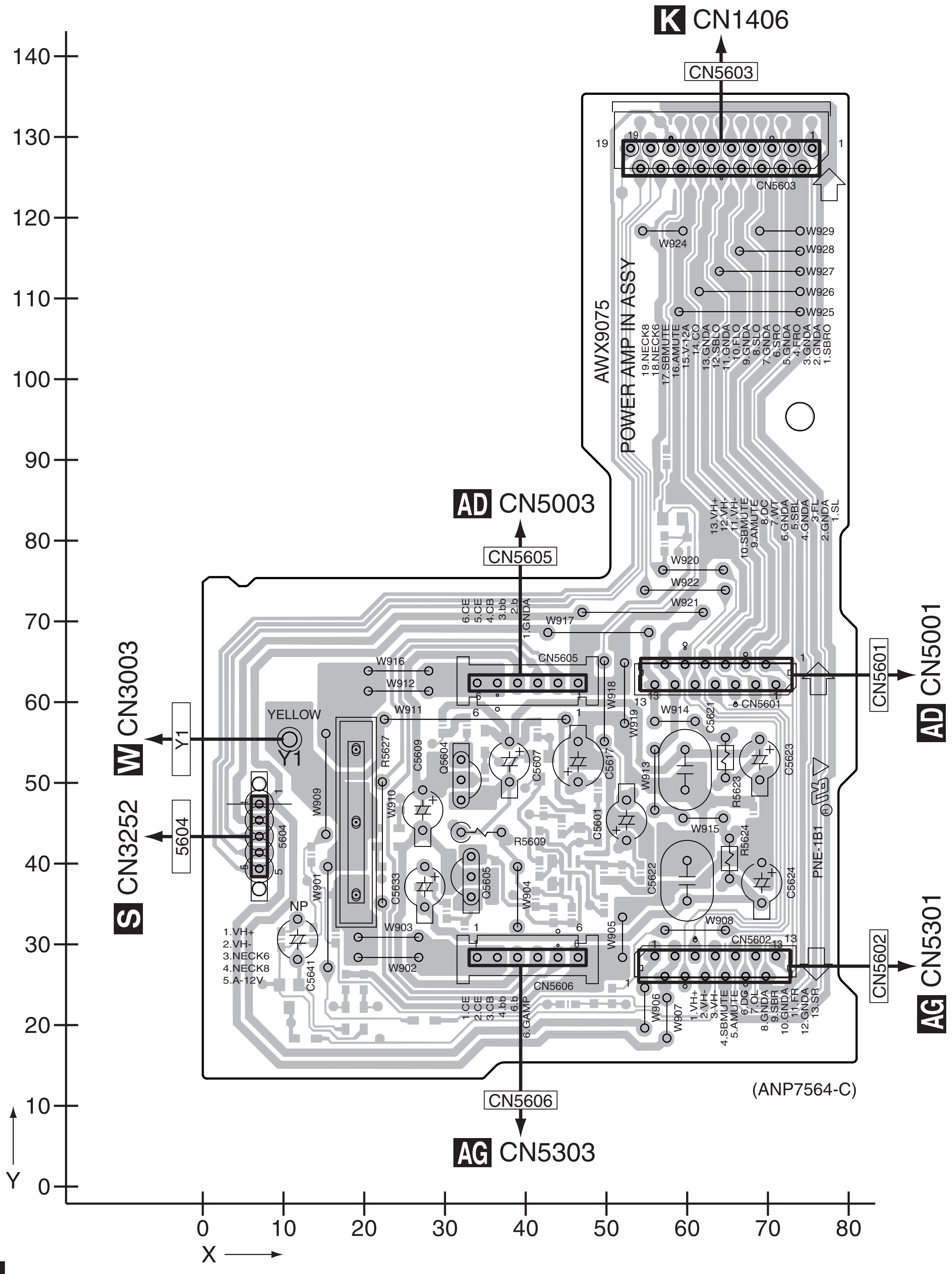
SIDE B


C
B
C
B
E
LF
C
B
E
LF
C
B
E
LF
C5311
C5312
C5411
C5412
R5413
R5415
R5321
R5313
R5315
R5322
R5326
R5425
R5421
R5422
R5426
R5343
R5341
R5342
R5344
D5344
D5341
D5342
R5345
R5346
R5349
R5348
R5347
R5310
R5311
D5301
D5302
D5303
D5305
D5306
D5304
R5308
C5306
R5305
C5304
C5308
R5312
R5332
R5350
Q5341
D5343
C5305
R5307
Q5302
Q5303
R5306
C5332
C5327
R5301
R5304
C5303
Q5301
R5302
C5302
R5303
R5330
R5331
R5329
C5315
C5316
R5410
R5411
D5401
D5402
R5408
C5405
C5406
R5405
D5403
D5405
D5406
D5404
C5404
C5408
R5412
R5432
R5443
R5441
R5442
R5444
R5445
R5446
R5449
R5448
R5450
D5444
D5441
D5442
R5447
R5407
Q5403
Q5402
R5406
C5432
R5401
R5404
C5403
Q5401
R5402
C5402
R5403
R5430
R5431
R5429
C5415
C5416
C5427
D5443
Q5441
CN5302
11
1
9073 AWX
9106 AWX
AWX
1,NC
2,NC
3,WT
4,OL DET
5,DC DET
6,POSI_2
7,POSI_2
8,GNDU
9,POSI_1
10,NC
11,NC
POWER AMP R_ASSY
LF
Y2
CN5304
Y4
(ANP7564-C)
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
X

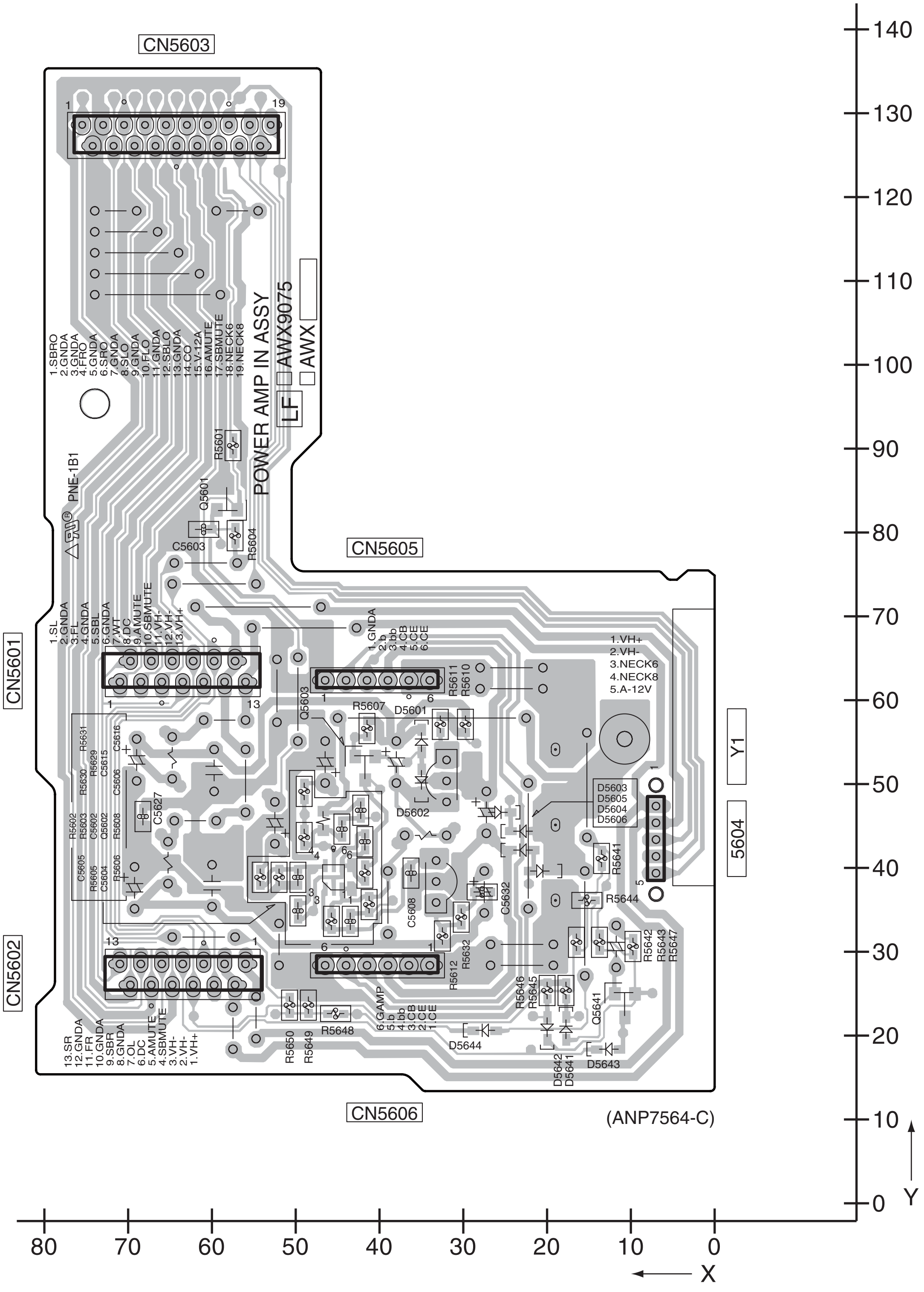
11.29 POWER AMP IN ASSY

SIDE A **SIDE A**

AI POWER AMP IN ASSY


K CN1406
CN5603
19
1
CN5603
W924
W929
W928
W927
W926
W925
AWX9075
POWER AMP IN ASSY
19.NECK8
18.NECK6
17.SBMUTE
16.AMUTE
15.V-12A
14.CC
13.GNDA
12.SBLO
11.GNDA
10.FLO
9.GNDA
8.SLO
7.GNDA
6.SRO
5.GNDA
4.FRO
3.GNDA
2.GNDA
1.SBRO
AD CN5003
CN5605
13.VH+
12.VH-
11.VH-
10.SBMUTE
9.AMUTE
8.DC
7.WT
6.GNDA
5.SBL
4.GNDA
3.FL
2.GNDA
1.SL
W920
W922
W921
W917
6.CE
5.CE
4.CB
3.bb
2.b
1.GNDA
CN5605
W916
W912
W911
W918
W919
CN5601
CN5601
AD CN5001
W CN3003
Y1
YELLOW
Y1
S CN3252
5604
5604
R5627
C5609
Q5604
C5607
C5617
W913
W914
C5621
R5623
C5623
W909
W910
C5601
R5609
W915
R5624
PNE-1B1
C5622
C5624
W901
C5633
Q5605
W904
NP
1.VH+
2.VH-
3.NECK6
4.NECK8
5.A-12V
C5641
W903
W902
W905
W908
CN5602
CN5606
1.CE
2.CE
3.CB
4.bb
6.b
6.GAMP
W906
W907
1.VH+
2.VH-
3.VH-
4.SBMUTE
5.AMUTE
6.DG
7.OL
8.GNDA
9.SBR
10.GNDA
11.FR
12.GNDA
13.SR
CN5602
AG CN5301
(ANP7564-C)
CN5606
AG CN5303
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
0 10 20 30 40 50 60 70 80
X

AI POWER AMP IN ASSY

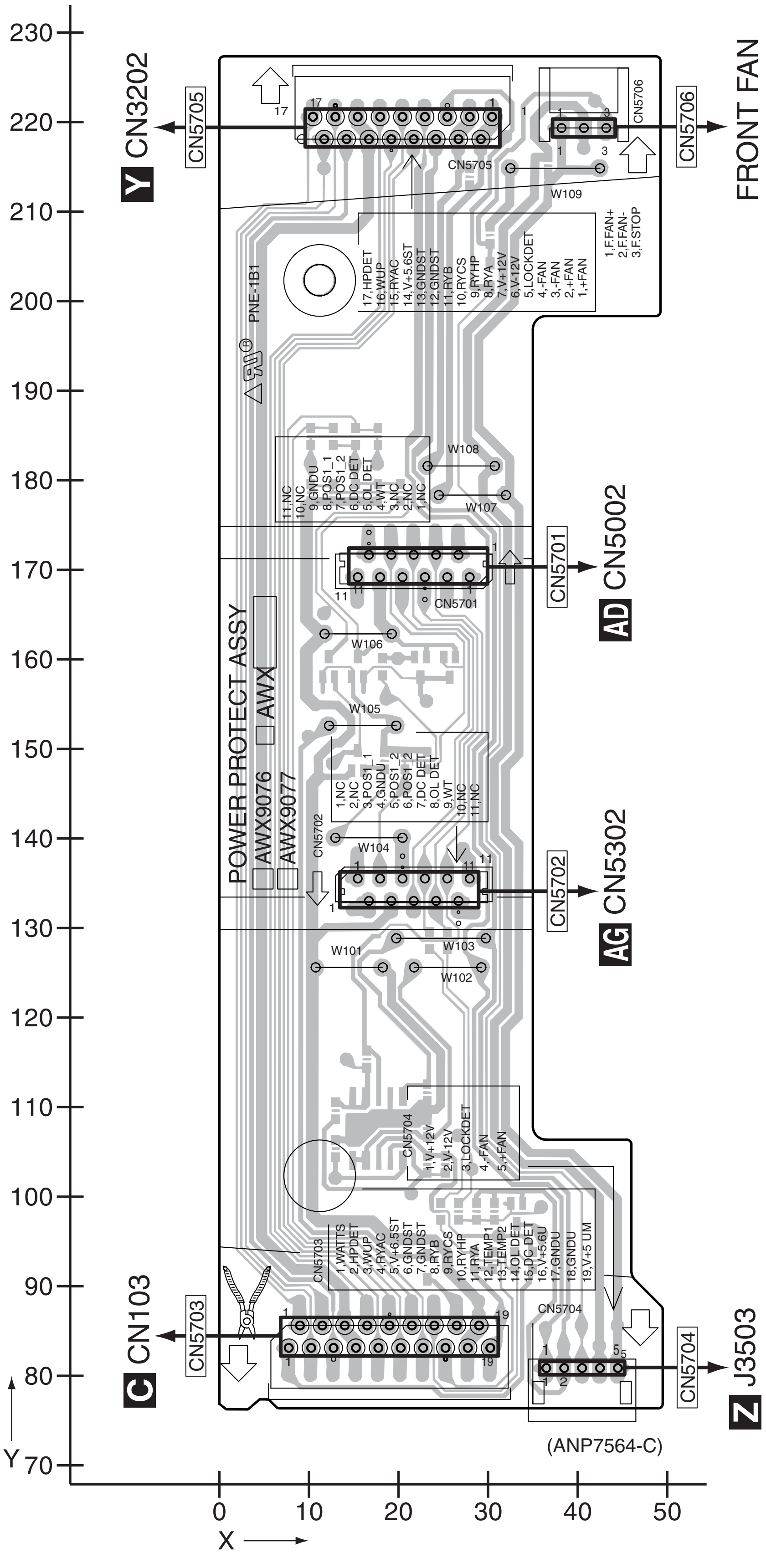

CN5603
1
19
1.SBRO
2.GNDA
3.GNDA
4.FRO
5.GNDA
6.SRO
7.GNDA
8.SLO
9.GNDA
10.FLO
11.GNDA
12.SBLO
13.GNDA
14.CO
15.V-12A
16.AMUTE
17.SBMUTE
18.NECK6
19.NECK8
POWER AMP IN ASSY
LF
AWX9075
AWX
R5601
Q5601
PNE-1B1
C5603
R5604
CN5605
CN5601
1.SL
2.GNDA
3.FL
4.GNDA
5.SBL
6.GNDA
7.WT
8.DC
9.AMUTE
10.SBMUTE
11.VH-
12.VH-
13.VH+
1
13
1.GNDA
2.b
3.bb
4.CB
5.CE
6.CE
1
6
R5611
R5610
1.VH+
2.VH-
3.NECK6
4.NECK8
5.A-12V
Q5603
R5607
D5601
Y1
R5631
R5630
R5629
C5615
C5616
C5606
R5602
R5603
C5602
Q5602
R5608
C5627
D5602
D5603
D5605
D5604
D5606
5604
C5605
R5605
C5604
R5606
R5641
C5608
C5632
R5644
CN5602
13
1
6
1
R5612
R5632
R5642
R5643
R5647
R5646
R5645
Q5641
13.SR
12.GNDA
11.FR
10.GNDA
9.SBR
8.GNDA
7.OL
6.DC
5.AMUTE
4.SBMUTE
3.VH-
2.VH-
1.VH+
R5650
R5649
R5648
6.GAMP
5.b
4.bb
3.CB
2.CE
1.CE
D5644
D5642
D5641
D5643
CN5606
(ANP7564-C)
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
80
70
60
50
40
30
20
10
0
X

11.30 POWER PROTECT ASSY

SIDE A **SIDE A**

A

AJ POWER PROTECT ASSY


230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
Y
0
10
20
30
40
50
X
Y CN3202
CN5705
FRONT FAN
CN5706
17
1
1
3
CN5705
W109
17,HPDET
16,WUP
15,RYAC
14,V+5.6ST
13,GNDST
12,GNDST
11,RYB
10,RYCS
9,RYHP
8,RYA
7,V+12V
6,V-12V
5,LOCKDET
4,-FAN
3,-FAN
2,+FAN
1,+FAN
1,F.FAN+
2,F.FAN-
3,F.STOP
PNE-1B1
11,NC
10,NC
9,GNDU
8,POS1_1
7,POS1_2
6,DC DET
5,OL DET
4,WT
3,NC
2,NC
1,NC
W108
W107
CN5701
AD CN5002
11
1
CN5701
W106
POWER PROTECT ASSY
AWX
AWX9076
AWX9077
W105
1,NC
2,NC
3,POS1_1
4,GNDU
5,POS1_2
6,POS1_2
7,DC DET
8,OL DET
9,WT
10,NC
11,NC
CN5702
W104
1
11
CN5702
AG CN5302
W101
W103
W102
CN5704
1,V+12V
2,V-12V
3,LOCKDET
4,-FAN
5,+FAN
CN5703
1,WATTS
2,HPDET
3,WUP
4,RYAC
5,V+6.5ST
6,GNDST
7,GNDST
8,RYB
9,RYCS
10,RYHP
11,RYA
12,TEMP1
13,TEMP2
14,OL DET
15,DC DET
16,V+5.6U
17,GNDU
18,GNDU
19,V+5 UM
C CN103
CN5703
1
19
CN5704
1
5
2
Z J3503
CN5704
(ANP7564-C)

B

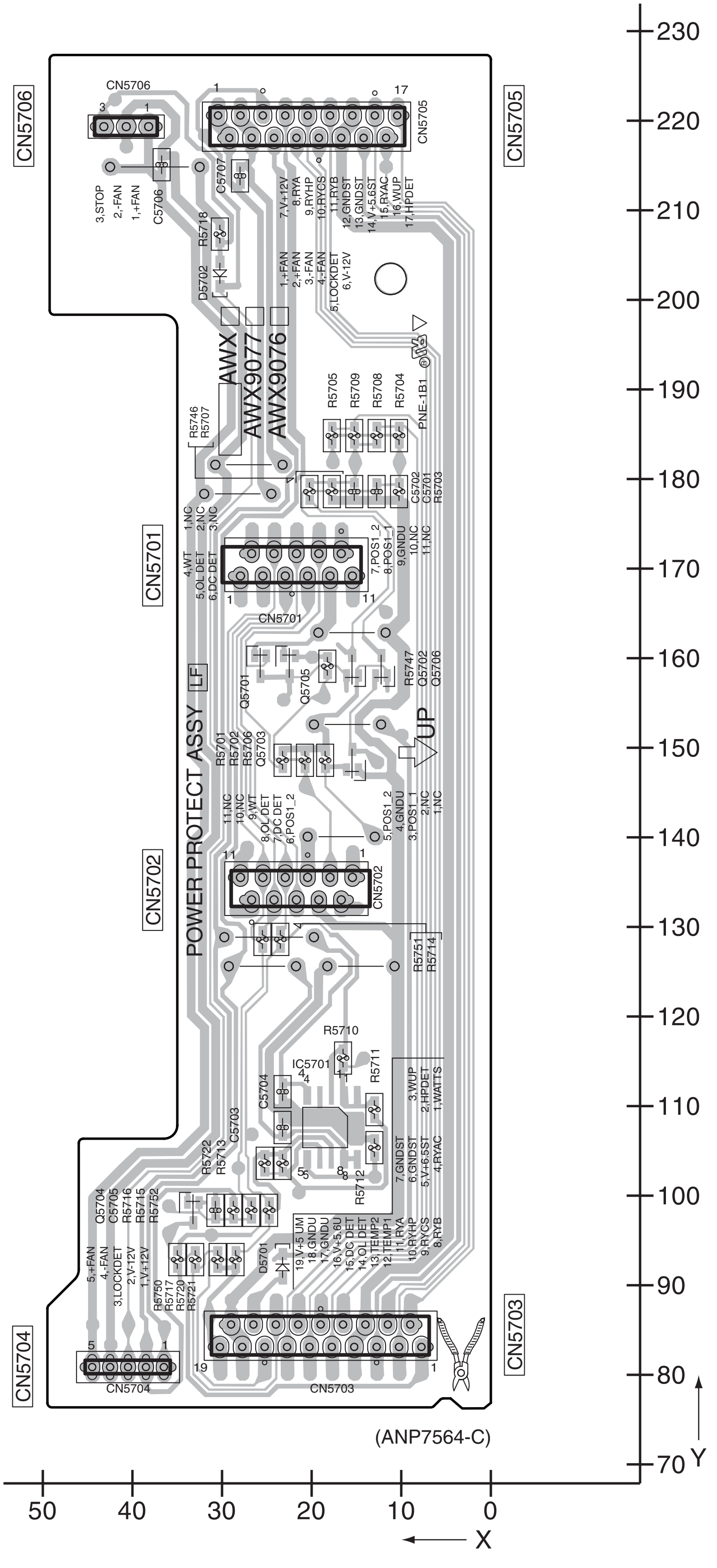
C

D

E

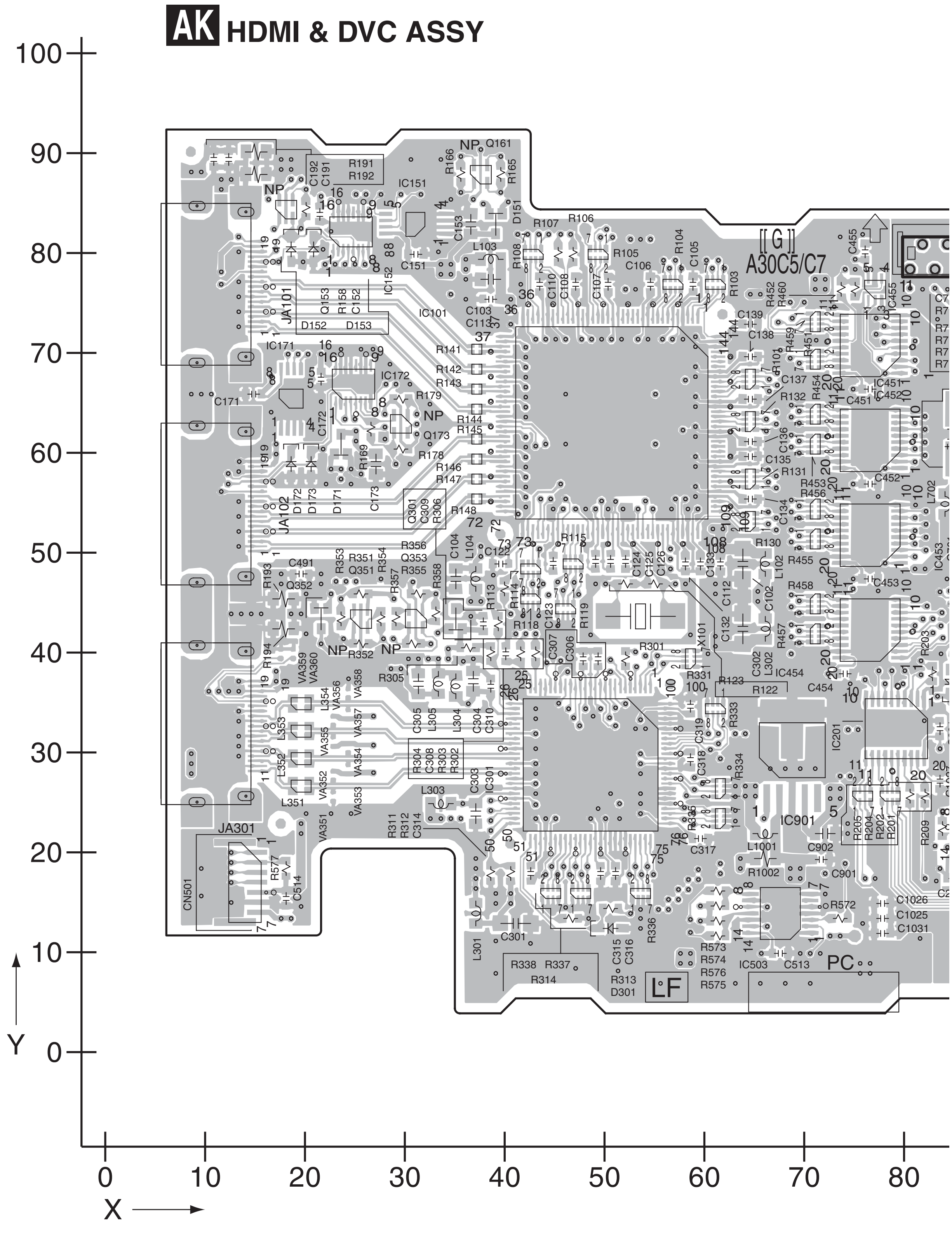
F

AJ POWER PROTECT ASSY

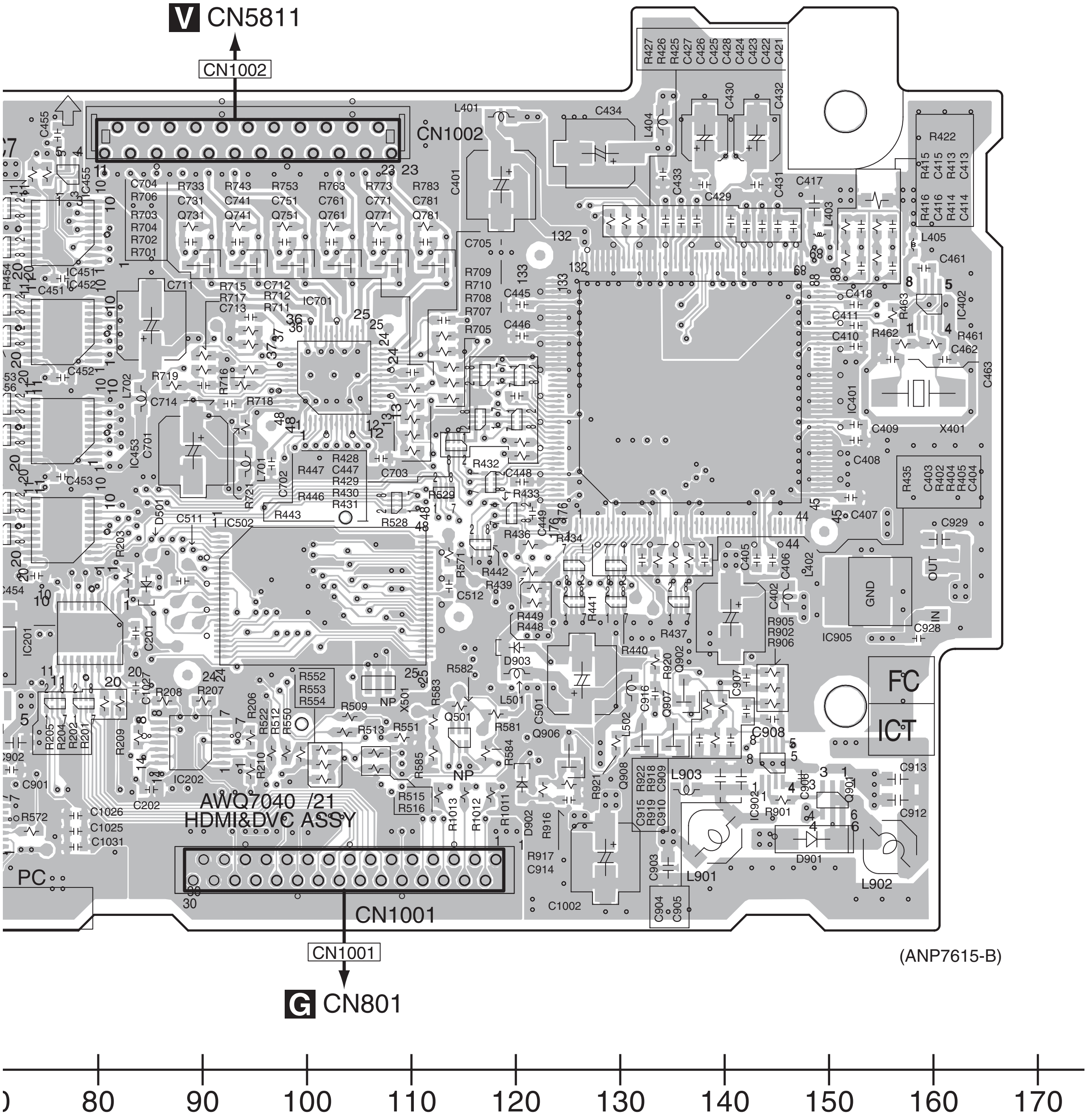

CN5706
CN5705
CN5701
CN5702
CN5703
CN5704
3,STOP
2,-FAN
1,+FAN
C5706
C5707
R5718
D5702
7,V-12V
8,RYA
9,RYHP
10,RYCS
11,RYB
12,GNDST
13,GNDST
14,V+5.6ST
15,RYAC
16,WUP
17,HPDET
1,+FAN
2,+FAN
3,-FAN
4,-FAN
5,LOCKDET
6,V-12V
AWX
AWX9077
AWX9076
R5746
R5707
R5705
R5709
R5708
R5704
PNE-1B1
C5702
C5701
R5703
1,NC
2,NC
3,NC
4,WT
5,OL DET
6,DC DET
7,POS1_2
8,POS1_1
9,GNDU
10,NC
11,NC
Q5701
Q5705
R5747
Q5702
Q5706
POWER PROTECT ASSY
LF
UP
R5701
R5702
R5706
Q5703
11,NC
10,NC
9,WT
8,OL DET
7,DC DET
6,POS1_2
5,POS1_2
4,GNDU
3,POS1_1
2,NC
1,NC
R5751
R5714
R5710
IC5701
R5711
C5704
C5703
R5722
R5713
R5712
3,WUP
2,HPDET
1,WATTS
7,GNDST
6,GNDST
5,V+6.5ST
4,RYAC
Q5704
C5705
R5716
R5715
R5752
5,+FAN
4,-FAN
3,LOCKDET
2,V-12V
1,V+12V
R5750
R5717
R5720
R5721
D5701
19,V+5 UM
18,GNDU
17,GNDU
16,V+5.6U
15,DC DET
14,OL DET
13,TEMP2
12,TEMP1
11,RYA
10,RYHP
9,RYCS
8,RYB
(ANP7564-C)
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
Y
50
40
30
20
10
0
X

11.31 HDMI & DVC ASSY

SIDE A


AK
HDMI & DVC ASSY
100
90
80
70
60
50
40
30
20
10
0
Y
X
0
10
20
30
40
50
60
70
80
JA101
JA102
JA301
CN501
IC101
IC151
IC152
IC171
IC172
IC201
IC301
IC451
IC452
IC453
IC454
IC503
IC901
Q153
Q161
Q173
Q351
Q352
Q353
D151
D152
D153
D171
D172
D173
D301
X101
L102
L103
L104
L301
L303
L304
L305
L351
L352
L353
L354
L702
L1001
NP
R191
R192
C191
C192
R166
R165
R107
R106
R108
R105
R104
C105
C106
R103
C110
C108
C107
C103
C113
C151
C153
C152
R158
R141
R142
R143
R144
R145
R146
R147
R148
R178
R179
R169
C171
C172
C173
C139
C138
C137
C136
C135
C134
C455
C451
C452
C453
C454
R452
R460
R459
R451
R454
R453
R456
R455
R458
R457
R132
R131
R130
R102
Q301
C309
R306
C104
C122
R115
C124
C125
C126
C132
C112
C102
C302
L302
C491
R193
R194
R353
R351
R354
R356
R355
R357
R358
R352
R113
R114
R118
R119
C123
C307
C306
R301
R331
R123
R122
VA351
VA352
VA353
VA354
VA355
VA356
VA357
VA358
VA359
VA360
R305
C305
C304
C310
R304
C308
R303
R302
C303
R311
R312
C314
R577
C514
C301
C315
C316
R336
R338
R337
R314
R313
R333
C319
C318
R334
R335
C317
R1002
C902
C901
R572
R573
R574
R576
R575
C513
C1026
C1025
C1031
R205
R204
R202
R201
R209
R203
[[G]]
A30C5/C7
LF
PC
1
4
5
7
8
9
11
14
16
19
20
25
26
36
37
50
51
72
73
75
76
88
100
108
109
144

SIDE A


V CN5811
CN1002
CN1002
IC701
IC502
IC401
IC402
IC905
IC202
IC201
X401
GND
OUT
IN
FC
ICT
L903
L901
L902
D901
Q501
X501
AWQ7040 /21
HDMI&DVC ASSY
PC
CN1001
CN1001
G CN801
(ANP7615-B)
80
90
100
110
120
130
140
150
160
170

AK

SIDE B

A

B

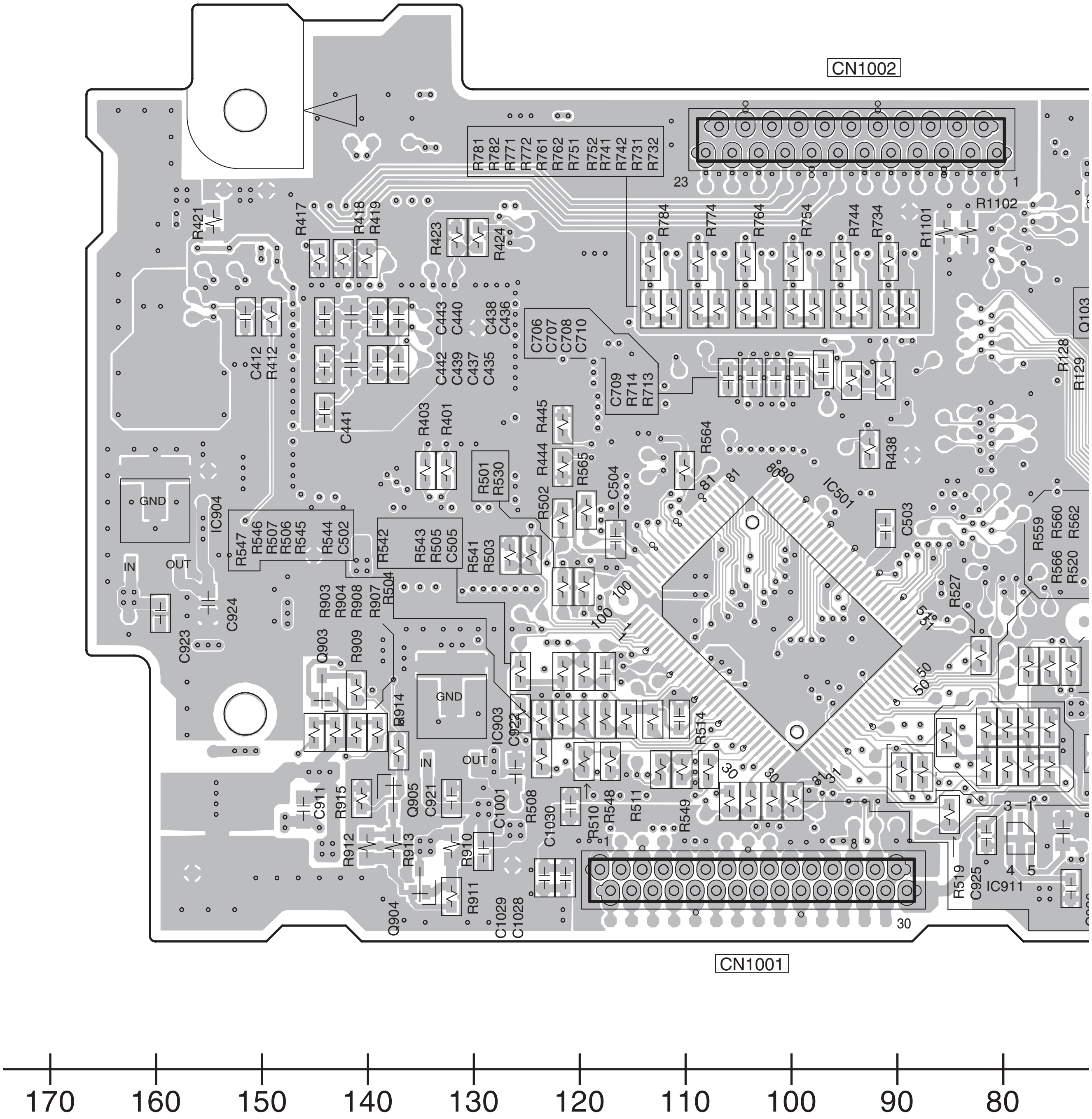
C

D

E

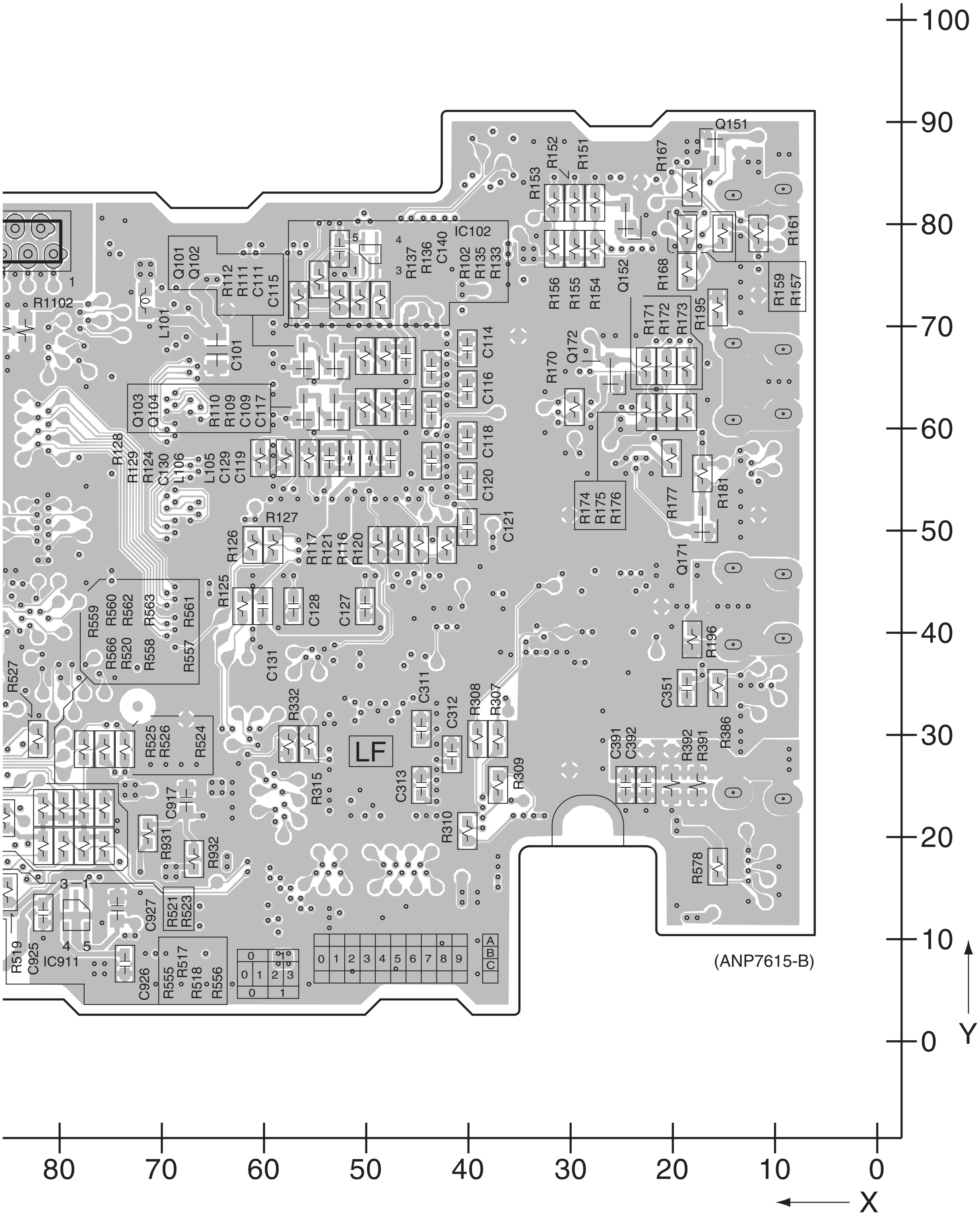
F

AK HDMI & DVC ASSY


CN1002
23
1
R781 R782 R771 R772 R761 R762 R751 R752 R741 R742 R731 R732
R784 R774 R764 R754 R744 R734 R1101 R1102
R421 R417 R418 R419 R423 R424
C412 R412 C441
C443 C440 C438 C436
C442 C439 C437 C435
C706 C707 C708 C710
C709 R714 R713
R403 R401 R445 R444 R565 C504 R564 R438
R501 R530 R502
Q103 R128 R129
IC904 GND IN OUT C924 C923
R547 R546 R507 R506 R545 R544 C502
R542 R543 R505 C505 R541 R503
R504 R903 R904 R908 R907
Q903 R909 R914
GND IC903 IN OUT C922
81 80 IC501 C503 100 1 51 50 31 30
R559 R560 R562 R566 R520 R527
R514
C911 R915 Q905 C921 C1001 R508 R510 R548 R511 R549
R912 R913 R910 R911 Q904 C1029 C1028 C1030
3 1 4 5 R519 C925 IC911
30
CN1001
170 160 150 140 130 120 110 100 90 80

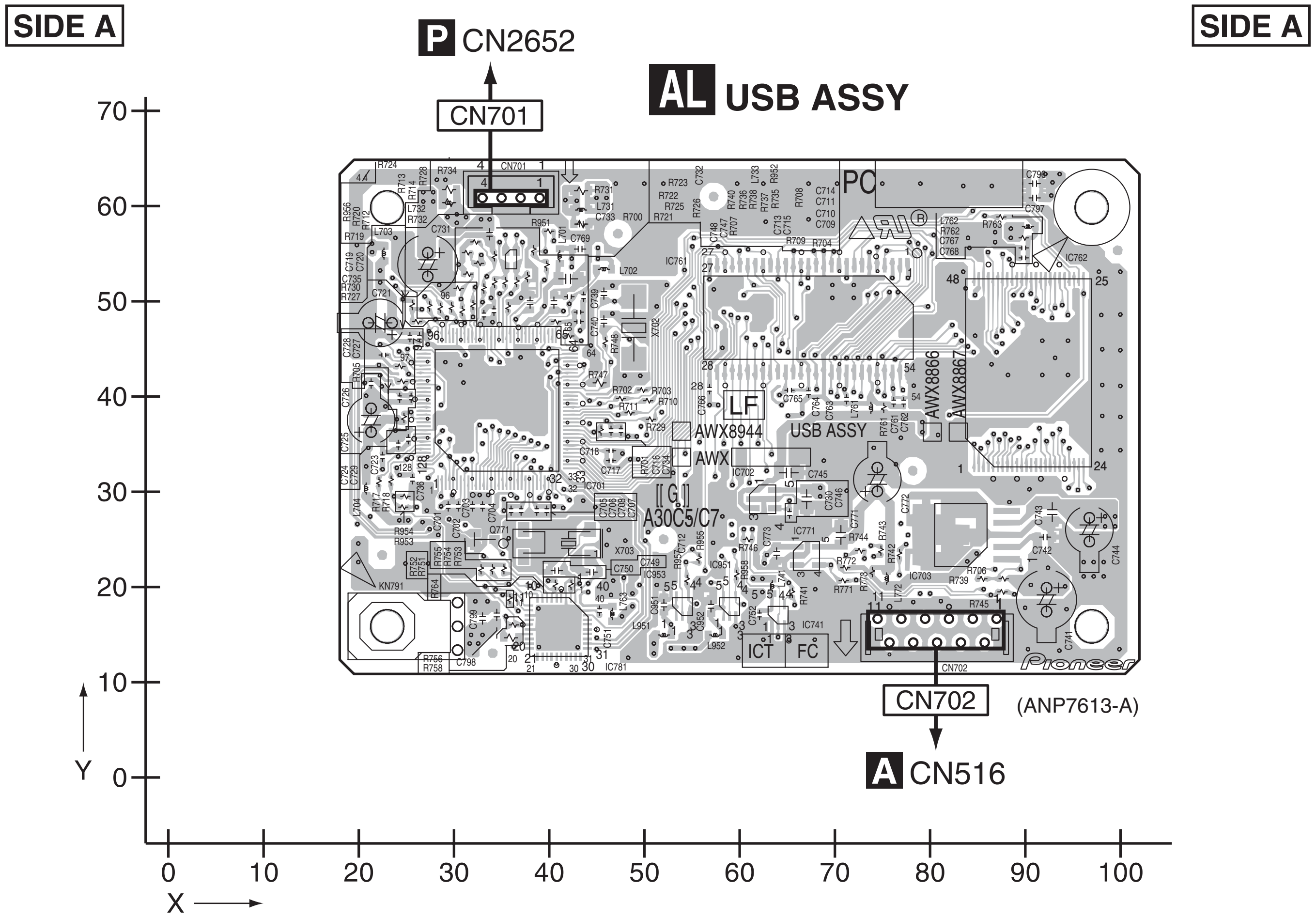
AK

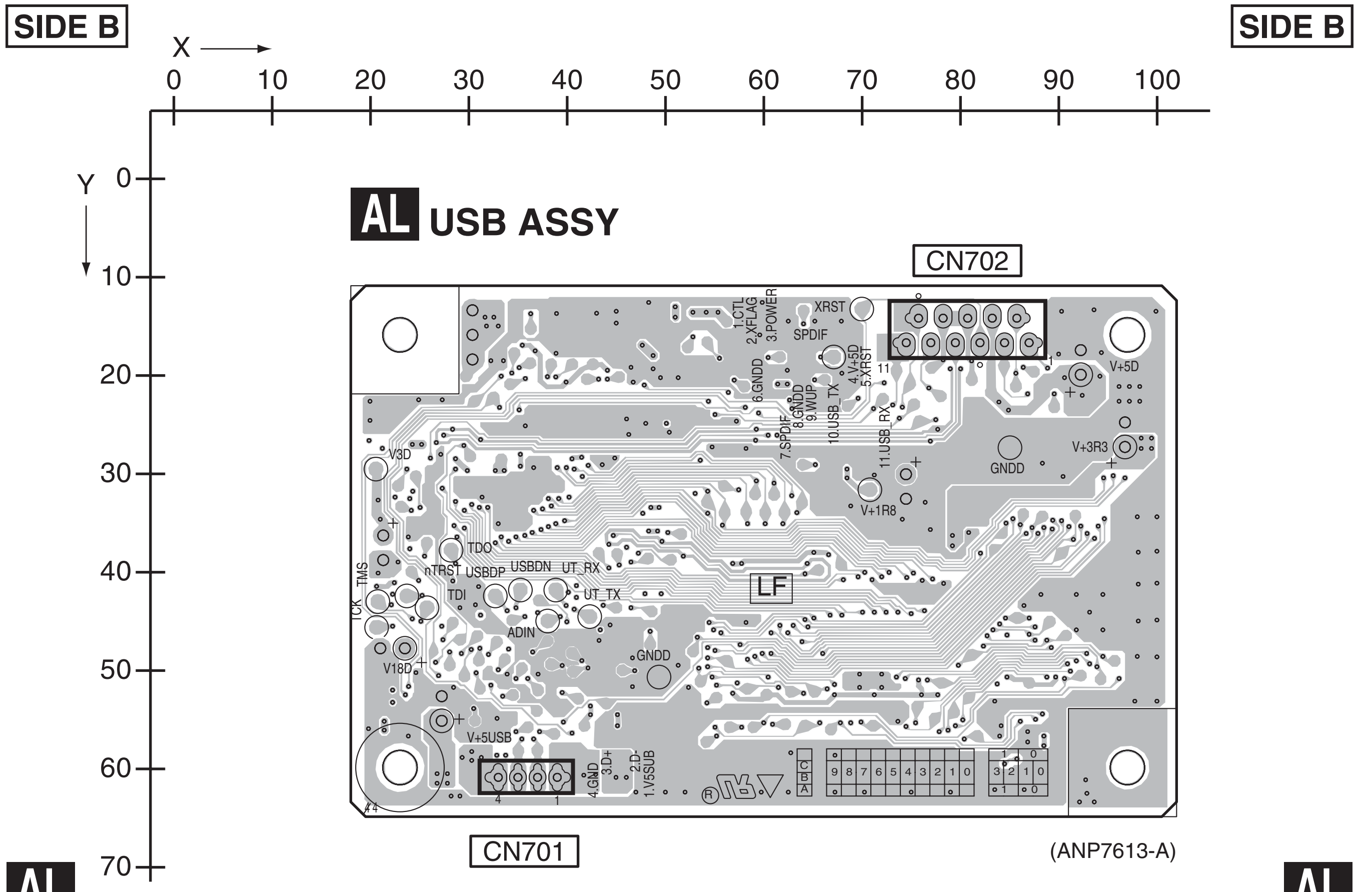
SIDE B


Q151
R152
R151
R153
R167
R161
IC102
Q101
Q102
R112
R111
C111
C115
R137
R136
C140
R102
R135
R133
R156
R155
R154
Q152
R168
R159
R157
R1102
L101
C101
R171
R172
R173
R195
C114
R170
Q172
C116
Q103
Q104
R110
R109
C109
C117
C118
R128
R129
R124
C130
L106
L105
C129
C119
C120
R174
R175
R176
R177
R181
R127
C121
R126
R117
R121
R116
R120
Q171
R125
C128
C127
R559
R560
R562
R563
R561
R566
R520
R558
R557
C131
R196
R527
C351
R332
C311
C312
R308
R307
R525
R526
R524
LF
R386
C391
C392
R392
R391
R315
C313
R309
C917
R931
R932
R310
R578
R519
C925
IC911
C927
R521
R523
C926
R555
R517
R518
R556
A
B
C
100
90
80
70
60
50
40
30
20
10
0
Y
80
70
60
50
40
30
20
10
0
X

(ANP7615-B)

11.32 USB ASSY (VSX-LX50 ONLY)


SIDE A
SIDE A
P CN2652
CN701
AL USB ASSY
LF
USB ASSY
AWX8944
AWX8866
AWX8867
A30C5/C7
ICT
FC
PC
CN702
(ANP7613-A)
A CN516
Y
X
0
10
20
30
40
50
60
70
80
90
100
Pioneer


SIDE B
SIDE B
X
Y
0
10
20
30
40
50
60
70
80
90
100
AL USB ASSY
CN702
1.CTL
2.XFLAG
3.POWER
XRST
SPDIF
4.V+5D
5.XRST
6.GNDD
7.SPDIF
8.GNDD
9.WUP
10.USB_TX
11.USB_RX
V+5D
V+3R3
GNDD
V+1R8
V3D
TDO
nTRST
USBDP
USBDN
UT_RX
UT_TX
TDI
TCK
TMS
ADIN
LF
GNDD
V18D
V+5USB
4.GND
3.D+
2.D-
1.V5SUB
CN701
(ANP7613-A)
AL
AL

12. PCB PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*

● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10^1 → 561 .... RD1/4PU$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47 x 10^3 → 473 .... RD1/4PU$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → R50 .... RN2H$\boxed{R}\boxed{5}\boxed{0}$K
1 Ω → 1R0 .... RS1P$\boxed{1}\boxed{R}\boxed{0}$K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10^1 → 5621 .... RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

● *Meaning of the figures and others in the parentheses in the parts list.*
Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.
IC 301 (A, 91, 111) IC NJM2068V

LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	VSX-LX50/ HYXJ5	VSX-91TXH/ KUXJ/CA	VSX-9120TXH-K/ KUXJ
NSP	1..MAIN ASSY	AWK7975	AWK7974	AWK7974
	2..MAIN CONTROL ASSY	AWX8817	AWX8816	AWX8816
	2..AUDIO IN ASSY	AWX8821	AWX8820	AWX8820
	2..12V-REG ASSY	AWX8824	AWX8824	AWX8824
	2..GUARD-C ASSY	AWX8826	AWX8826	AWX8826
	2..GUARD-F ASSY	AWX8825	AWX8825	AWX8825
	1..DSP ASSY	AWX8814	AWX8813	AWX8813
NSP	1..VIDEO ASSY	AWK7984	AWK7983	AWK7983
	2..COMPOSITE ASSY	AWX8842	AWX8841	AWX8841
	2..S-VIDEO ASSY	AWX8845	AWX8844	AWX8844
	2..COMPONENT ASSY	AWX8848	AWX8847	AWX8847
	2..BRIDGE 2 ASSY	AWX8850	AWX8850	AWX8850
NSP	1..COMPLEX ASSY	AWK8015	AWK8014	AWK8014
	2..PRIMARY ASSY	AWX9035	AWX9034	AWX9034
	2..TRANS 1 ASSY	AWX9038	AWX9038	AWX9038
	2..DISPLAY ASSY	AWX8874	AWX8873	AWX8873
	2..VOLUME ASSY	AWX9111	AWX9044	AWX9044
	2..MULTI JOG ASSY	AWX8880	AWX8879	AWX8879
	2..FRONT-IN ASSY	AWX8955	AWX8954	AWX8954
	2..HEADPHONE ASSY	AWX9049	AWX9049	AWX9049
NSP	1..SECONDARY ASSY	AWK7911	AWK7910	AWK7910
	2..PS/SP ASSY	AWX9107	AWX9052	AWX9052
	2..TRANS SIDE ASSY	AWX9056	AWX9056	AWX9056
	2..TRANS 2-1 ASSY	AWX9059	AWX9058	AWX9058
	2..DIODE 1 ASSY	AWX9060	AWX9060	AWX9060
	2..VH TR ASSY	AWX9061	AWX9061	AWX9061
	2..TRANS 2-2 ASSY	AWX9062	AWX9062	AWX9062
	2..LOCAL P-SUPPLY ASSY	AWX9064	AWX9063	AWX9063
	2..IR I/O ASSY	AWX9067	AWX9066	AWX9066
	2..VIDEO CONNECT ASSY	AWX9069	AWX9069	AWX9069
	2..DC/DC ASSY	AWX9015	AWX9015	AWX9015
	2..BRIDGE 1 ASSY	AWX9078	AWX9078	AWX9078
NSP	1..POWER AMP ASSY	AWK7920	AWK7919	AWK7919
	2..POWER AMP-L ASSY	AWX9072	AWX9071	AWX9071
	2..POWER AMP-R ASSY	AWX9073	AWX9106	AWX9106
	2..POWER AMP IN ASSY	AWX9075	AWX9075	AWX9075
	2..POWER PROTECT ASSY	AWX9077	AWX9076	AWX9076
	2..POSI 1-L ASSY	AWX9081	AWX9080	AWX9080
	2..POSI 2-L ASSY	AWX9082	Not used	Not used
	2..POSI 1-R ASSY	AWX9084	AWX9083	AWX9083
	1..HDMI & DVC ASSY	AWQ7040	AWQ7040	AWQ7040
	1..USB ASSY	AWX8866	Not used	Not used
	1..FM/AM TUNER UNIT	AXX7248	AXX7250	AXX7250

CONTRAST OF PCB ASSEMBLIES

A AUDIO IN ASSY

AWX8821 and AWX8820 are constructed the same except for the following:

Mark	Symbol and Description	AWX8821	AWX8820
⚠	IC663	Not used	NJM78M12FA
	D671	Not used	RB501V-40-TRB
	C501, C502, C505-C510	CCSRCH101J50	Not used
	C513-C518, C521-C526	CCSRCH101J50	Not used
	C541-C544, C549-C552	CCSRCH101J50	Not used
	C527, C528, C531-C536	CCSRCH151J50	Not used
	C539, C540, C547, C548	CCSRCH151J50	Not used
	C503, C504, C511, C512, C519, C520	CCSRCH221J50	Not used
	C678	Not used	CKSRYB103K50
	C679	Not used	CEAT100M50-TS
	CN516 11p Plug	XKP3065	Not used

C MAIN CONTROL ASSY

AWX8817 and AWX8816 are constructed the same except for the following:

Mark	Symbol and Description	AWX8817	AWX8816
	IC251	LC72725KM-TBB	Not used
	IC252	Not used	TC74VHC125FTS1-TBB
	Q102	Not used	RT1P241M-TLB
	C251	CEAT100M50-TS	Not used
	C253	CCSRCH561J50	Not used
	C254	CEAT101M10-TS	Not used
	C255	CKSRYB102K50	Not used
	C256, C257	CCSRCH270J50	Not used
	C260	CKSRYB472K50	Not used
	C261	Not used	CKSRYB104K16
	R124, R126, R127	RS1/16S101J	Not used
	R130, R132, R199	Not used	RS1/16S101J
	R131, R171, R259, R260	Not used	RS1/16S104J
	R136	RS1/16S222J	Not used
	R152	Not used	RS1/16S473J
	R156	Not used	RS1/16S103J
	R187, R188	RS1/16S0R0J	Not used
	R189	RS1/16S104J	Not used
	R251	RS1/16S473J	RS1/16S474J
	R252, R253, R254	RS1/16S102J	Not used
	R255-R258	Not used	RS1/16S221J
	R261	Not used	RS1/16S274J
	R383, R384	Not used	RS1/16S0R0J
	R9001, R9003, R9005, R9010	RS1/16S0R0J	Not used
	J101 Connector Ass'y	Not used	PF03GG-Q12
	CN305 12p Connector	Not used	VKN1243
	CN311 Plug(5p)	Not used	KM200NA5
	X251 Crystal Resonator	ASS7004	Not used

G DSP ASSY

AWX8814 and AWX8813 are constructed the same except for the following:

Mark	Symbol and Description	AWX8814	AWX8813
	IC501	Not used	F2621E-01-TBB
	IC502	Not used	AAT4618IGV-0.5-1-TLB
	IC601	Not used	TC74VHC157FTS1-TBB
	D501, D502	Not used	UDZS5R6(B)-TRB
	L501, L601	Not used	QTL1013

Mark	Symbol and Description	AWX8814	AWX8813
	L502	Not used	ATL7002
	C501	Not used	CEVW470M6R3-TRB
	C502, C504, C505, C506, C602	Not used	CKSSYB104K10
	C503	Not used	CKSSYB471K50
	C507	Not used	CEVW101M16-TRB
	C508	Not used	CKSRYB104K16
	C509, C510	Not used	CCSSCH100D50
	C513	Not used	CKSRYB105K16
	R503, R613-R616	RS1/16SS0R0J	Not used
	R518, R601, R610	Not used	RAB4CQ101J
	R964	Not used	RAB4CQ104J
	R533, R535, R536	Not used	RS1/16SS0R0J
	R504, R506, R516, R523, R524	Not used	RS1/16SS101J
	R525, R526, R528, R605, R608	Not used	RS1/16SS101J
	R505, R507	Not used	RS1/16SS102J
	R531	Not used	RS1/16SS103J
	R511	Not used	RS1/16SS105J
	R514, R515, R517, R519, R520	Not used	RS1/16SS223J
	R521, R532	Not used	RS1/16SS223J
	R527, R529, R604, R606, R607, R609	Not used	RS1/16SS470J
	R510	Not used	RS1/16SS471J
	CN953 12p Connector	Not used	VKN1416
	CN501 4p Socket	Not used	AKP7201
	JA351 Jack	AKB7131	AKB7173
	X501	Not used	ASS7065

H COMPOSITE ASSY

AWX8842 and AWX8841 are constructed the same except for the following:

Mark	Symbol and Description	AWX8842	AWX8841
	IC1002	Not used	TC74HC4051AFT-TBB
	IC1151	Not used	M61545FP-TBB
	Q1151	Not used	IMX25
	D1006	Not used	DAN202U-TLB
	D1007	Not used	1SS355-TRB
	D1112	Not used	DAN217U-TLB
	C1003, C1004, C1163	Not used	CKSRYB104K16
	C1015	Not used	CEAT101M10
	C1023	Not used	CCSRCH181J50
	C1101-C1104	CCSRCH101J50	Not used
	C1151-C1154	Not used	CEAT2R2M50
	C1155, C1156, C1161, C1162	Not used	CCSRCH101J50
	C1157, C1158	Not used	CCSRCH331J50
	C1159	Not used	CKSRYB104K50
	C1160	Not used	CEAT100M50
	C1164	Not used	CKSRYB103K50
	R1005	Not used	RS1/16S750J
	R1053	Not used	RS1/16S0R0J
	R1151, R1152	Not used	RS1/16S104J
	R1153, R1154	Not used	RS1/16S202J
	R1155, R1156	Not used	RS1/16S103J
	R1157, R1158	Not used	RS1/16S101J
	R1159, R1160, R1164	Not used	RS1/16S471J
	R1163	Not used	RS1/16S473J
	JA1006 Pin Jack(1p)	AKB7175	Not used
	1004 Pin Jack(2p)	Not used	AKB7176
	1005 Pin Jack(2p)	Not used	AKB7181

I S-VIDEO ASSY

AWX8845 and AWX8844 are constructed the same except for the following:

Mark	Symbol and Description	AWX8845	AWX8844
	IC1301	Not used	SP3232ECY-TBB
	Q1301	Not used	2SC4081(QRS)-TLB
	Q1351	Not used	2SA1576A(RS)-TLB
	Q1352	Not used	RT1N241M-TLB
	Q1353	Not used	2SA1576A(RS)-TLB
	D1302	Not used	1SS355-TRB
	D1351, D1601, D1602	Not used	UDZS5R1(B)-TRB
	D1603-D1606	Not used	UDZS6R2(B)-TRB
	L1351	Not used	ATL7002
	C1304-C1306, C1308, C1352	Not used	CKSRYB104K16
	C1309, C1353, C1311	Not used	CKSRYB103K50
	C1310	Not used	CCSRCH331J50
	C1354	Not used	CKSRYB102K50
	C1355	Not used	CKSRYB472K50
	C1605, C1606	Not used	CEAT470M25
	R1310	RS1/16S103J	Not used
	R1309, R1624, R1629, R1630	Not used	RS1/16S0R0J
	R1301-R1304	Not used	RS1/16S101J
	R1307, R1353, R1354	Not used	RS1/16S103J
	R1351, R1352	Not used	RS1/16S180J
	R1305, R1308	Not used	RS1/16S224J
	R1603, R1604	Not used	RS1/16S331J
	R1355, R1356	Not used	RS1/16S472J
	R1306, R1601,R1602	Not used	RS1/16S474J
	CN1301 9p D-sub Socket	Not used	AKP1213
	CN1302 07p Connector	RKN1048	Not used
	JA1351 Jack	Not used	RKN1004
	JA1601 Socket	Not used	BKP1127
	J1602 Connector Ass'y	Not used	PF05PG-Q15

K COMPONENT ASSY

AWX8848 and AWX8847 are constructed the same except for the following:

Mark	Symbol and Description	AWX8848	AWX8847
	C1501, C1502, C1521, C1522, C1541	CCSRCH101J50	Not used
	C1542, C1561, C1562	CCSRCH101J50	Not used
	C1507, C1508, C1527, C1528, C1569	CCSRCH271J50	Not used
	C1570, C1571, C1572	CCSRCH271J50	Not used

L DISPLAY ASSY

AWX8874 and AWX8873 are constructed the same except for the following:

Mark	Symbol and Description	AWX8874	AWX8873
	Q2402	Not used	UMB1N
	Q2409	RT1N431M-TLB	Not used
	D2401	Not used	1SS355-TRB
	D2402	Not used	DAN217U-TLB
	D2415	Not used	DAN202U-TLB
	D2414	SLR343BC4T(JKLM)-TS	Not used
	C2402	Not used	CKSRYB153K50
	R2407	Not used	RS1/16S223J
	R2408, R2410	Not used	RS1/16S103J
	R2409	Not used	RS1/16S392J
	R2414	RS1/16S0R0J	Not used
	R2423	RS1/16S221J	Not used
	R2425, R2426	Not used	RS1/16S0R0J

P FRONT_IN ASSY

AWX8955 and AWX8954 are constructed the same except for the following:

Mark	Symbol and Description	AWX8955	AWX8954
	L2752, L2753	VTL1169	Not used
	C2673	CKSRYB104K16	CKSRYB104K25
	C2753, C2756	CKSRYB104K16	Not used
	C2755	CEAT101M16-TS	Not used
	C2757	CCSRCH471J50	Not used
	R2751, R2752	RS1/16S0R0J	Not used
	JA2751 USB Connector	XKP3086	Not used
	CN2652 Connector	B4B-PH-K-S	Not used

Q PRIMARY ASSY

AWX9035 and AWX9034 are constructed the same except for the following:

Mark	Symbol and Description	AWX9035	AWX9034
⚠	T2001	ATT7040	ATT7043
⚠	RY2001	ASR7013	ASR7022
⚠	R2001	Not used	RCN1080
	R2002	RD1/4MUF101J	RD1/4MUF220J
⚠	2001 AC Socket 1-p	Not used	AKP1033

S TRANS 2-1 ASSY

AWX9059 and AWX9058 are constructed the same except for the following:

Mark	Symbol and Description	AWX9059	AWX9058
	D3253	UDZS8R2(B)-TRB	UDZS10(B)-TRB
	D3254	UDZS7R5(B)-TRB	UDZS9R1(B)-TRB
	D3255	UDZS9R1(B)-TRB	UDZS10(B)-TRB
	D3256	UDZS8R2(B)-TRB	UDZS9R1(B)-TRB
	D3263	UDZS13(B)-TRB	UDZS10(B)-TRB
	D3264	UDZS15(B)-TRB	UDZS12(B)-TRB

W PS/SP ASSY

AWX9107 and AWX9052 are constructed the same except for the following:

Mark	Symbol and Description	AWX9107	AWX9052
	C3101, C3102	ACH7255	ACH7258
	CN3002 Speaker Terminal 6-p	AKE7108	AKE7107
	CN3001 Speaker Terminal 8-p	AKE7119	AKE7118

Z LOCAL P-SUPPLY ASSY

AWX9064 and AWX9063 are constructed the same except for the following:

Mark	Symbol and Description	AWX9064	AWX9063
⚠	IC3502	AEK7012	Not used
⚠	Q3501	UMD2N-TLB	Not used
⚠	Q3502	2SD1763A(DE)	Not used
	Q3503	DTC124EUA-TLB	Not used
⚠	D3509, D3510	1SR154-400-TRB	Not used
	D3511	UDZS27(B)-TRB	Not used
	C3512	CEAT100M50	Not used
	C3513	CKSRYB102K50	Not used
	C3514	CEAT100M50	Not used
	C3510	CEANP102M16-F	Not used
	C3511	CEAT102M35-F	Not used
	C3515	CEANP470M25	Not used
	R3504	RS1/16S472J	Not used
	R3505	RS1/16S101J	Not used
	R3506	RS1/16S222J	Not used

AB IR I/O ASSY

AWX9067 and AWX9066 are constructed the same except for the following:

Mark	Symbol and Description	AWX9067	AWX9066
	D3702	Not used	1SS355-TRB
	L3701	Not used	CTF1473
	L3702	Not used	QTL1013
	L3703	Not used	CTF1473
	L3704	Not used	CTF1385
	C3758	Not used	CKSRYB103K50
	R3701	Not used	RS1/16S0R0J
	R3702	Not used	RS1/16S102J
	R3703, R3755	RS1/16S0R0J	Not used
	JA3701 Connector	Not used	CKS4124
	JA3702 Jack	Not used	RKN1004

AD POWER AMP-L ASSY

AWX9072 and AWX9071 are constructed the same except for the following:

Mark	Symbol and Description	AWX9072	AWX9071
NSP	CN5005 Connector	B2B-PH-K-R	Not used

AE POSI 1-L ASSY

AWX9081 and AWX9080 are constructed the same except for the following:

Mark	Symbol and Description	AWX9081	AWX9080
⚠	TH4501 Posistor	PTFM04BH222Q2N34B0	PTFM04BC222Q2N34B0

AG POWER AMP-R ASSY

AWX9073 and AWX9106 are constructed the same except for the following:

Mark	Symbol and Description	AWX9073	AWX9106
	5002 PCB Binder	VEF1040	Not used

AH POSI 1-R ASSY

AWX9084 and AWX9083 are constructed the same except for the following:

Mark	Symbol and Description	AWX9084	AWX9083
⚠	TH4503 Posistor	PTFM04BH222Q2N34B0	PTFM04BC222Q2N34B0

AJ POWER PROTECT ASSY

AWX9077 and AWX9076 are constructed the same except for the following:

Mark	Symbol and Description	AWX9077	AWX9076
	Q5703	RT1N241M-TLB	Not used
	Q5706	RT1P241M-TLB	Not used
	D5702	1SS355-TRB	Not used
	C5706	CKSRYB103K50	Not used
	R5704, R5709	Not used	RS1/16S0R0J
	R5705, R5708, R5746	RS1/16S0R0J	Not used
	R5706	RS1/16S822J	Not used
	R5718	RS1/16S104J	Not used
	CN5706 3pin Connector	S3B-EH	Not used

PCB PARTS LIST FOR VSX-LX50/HYXJ5 UNLESS OTHER WISE NOTED

MAIN ASSY (AWK7975)

MISCELLANEOUS

Mark	No.	Description	Part No.
J	663	JUMPER WIRE	D20PDD0605E

A AUDIO IN ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	501 (A,262,69)	8CH E-VOL	R2S15205FP
IC	701 (A,205,68)	OP-AMP IC	BA4560RF
IC	702 (A,220,73)	OP-AMP IC	BA4560RF
IC	703 (A,220,56)	IC	TC4066BFT
IC	741 (A,177,68)	OP-AMP IC	BA4560RF
IC	761 (A,191,68)	OP-AMP IC	BA4560RF
IC	781 (A,163,68)	OP-AMP IC	BA4560RF
IC	801 (A,264,170)	OP-AMP IC	UPC4570G2
IC	821 (A,264,139)	OP-AMP IC	UPC4570G2
IC	841 (A,264,155)	OP-AMP IC	UPC4570G2
IC	861 (A,264,123)	OP-AMP IC	UPC4570G2
⚠ Q	661 (A,136,78)	TRANSISTOR	2SD1858X
⚠ Q	662 (A,136,90)	TRANSISTOR	2SB1238X
Q	701 (A,224,50)	TRANSISTOR	UMD2N
D	591 (B,231,52)	DIODE	DAN217U
⚠ D	661 (B,39,52)	DIODE	1SR154-400
⚠ D	662 (B,34,52)	DIODE	1SR154-400
⚠ D	663 (B,25,52)	DIODE	1SR154-400
⚠ D	664 (B,30,52)	DIODE	1SR154-400
D	669 (B,127,75)	DIODE	UDZS7R5(B)
D	670 (B,127,87)	DIODE	UDZS7R5(B)
J	662 (A,85,59)	3P HOUSING WIRE ASSY	ADX7509
CN	501 (A,258,24)	23P PLUG	XKP3071
CN	507 (A,266,24)	CONNECTOR	CKS1730
CN	509 (A,234,48)	23P PLUG	XKP3071
CN	511 (A,131,47)	CONNECTOR	CKS1730
CN	512 (A,220,24)	23P PLUG	XKP3071
CN	513 (A,98,48)	23P PLUG	XKP3071
CN	516 (A,39,24)	11P PLUG	XKP3065
CN	520 (A,282,208)	17P SOCKET	XKP3079
CN	521 (A,317,60)	PIN JACK(4P)	AKB7172
CN	522 (A,317,88)	PIN JACK(4P)	AKB7172
CN	524 (A,317,158)	PIN JACK(4P)	AKB7172
CN	525 (A,317,186)	PIN JACK(4P)	AKB7172
CN	526 (A,317,214)	PIN JACK(4P)	AKB7172
CN	661 (A,26,62)	L-PLUG(10P)	KM200NA10L
	501 (A,150,71)	PCB BINDER	VEF1040
	523 (A,317,123)	PIN JACK(6P)	AKB7182
Y	661	AWG14 BOARD IN	ADX7511
	664 (A,46,67)	6P CABLE HOLDER	51048-0600

RESISTORS

Mark	No.	Description	Part No.
R	501 (B,303,54)		RS1/16S331J
R	502 (B,302,43)		RS1/16S331J
R	503 (B,302,71)		RS1/16S222J
R	504 (B,302,64)		RS1/16S222J
R	505 (B,302,84)		RS1/16S331J
R	506 (B,302,77)		RS1/16S331J
R	507 (B,302,97)		RS1/16S331J
R	508 (B,302,91)		RS1/16S331J
R	509 (B,302,110)		RS1/16S331J
R	510 (B,302,103)		RS1/16S331J
R	511 (B,302,128)		RS1/16S222J
R	512 (B,302,118)		RS1/16S222J
R	513 (B,302,142)		RS1/16S331J
R	514 (B,302,135)		RS1/16S331J
R	515 (B,302,209)		RS1/16S331J
R	516 (B,302,202)		RS1/16S331J
R	517 (B,302,222)		RS1/16S331J
R	518 (B,302,216)		RS1/16S331J
R	519 (B,302,155)		RS1/16S222J
R	520 (B,302,148)		RS1/16S222J
R	521 (B,302,168)		RS1/16S331J
R	522 (B,302,161)		RS1/16S331J
R	523 (B,302,182)		RS1/16S331J
R	524 (B,302,176)		RS1/16S331J
R	525 (B,302,195)		RS1/16S331J
R	526 (B,302,189)		RS1/16S331J
R	527 (B,309,56)		RS1/16S474J
R	528 (B,309,51)		RS1/16S474J
R	529 (B,309,69)		RS1/16S474J
R	530 (B,309,64)		RS1/16S474J
R	531 (B,309,84)		RS1/16S474J
R	532 (B,309,79)		RS1/16S474J
R	533 (B,309,97)		RS1/16S474J
R	534 (B,309,92)		RS1/16S474J
R	535 (B,309,110)		RS1/16S474J
R	536 (B,309,107)		RS1/16S474J
R	537 (B,309,128)		RS1/16S474J
R	538 (B,309,118)		RS1/16S474J
R	539 (B,309,140)		RS1/16S474J
R	540 (B,309,134)		RS1/16S474J
R	541 (B,309,210)		RS1/16S474J
R	542 (B,309,205)		RS1/16S474J
R	543 (B,309,223)		RS1/16S474J
R	544 (B,309,218)		RS1/16S474J
R	545 (B,309,154)		RS1/16S474J
R	546 (B,309,149)		RS1/16S474J
R	547 (B,309,167)		RS1/16S474J
R	548 (B,309,162)		RS1/16S474J
R	549 (B,309,182)		RS1/16S474J
R	550 (B,309,177)		RS1/16S474J
R	551 (B,309,195)		RS1/16S474J
R	552 (B,309,190)		RS1/16S474J
R	561 (A,246,87)		RS1/16S472J
R	562 (A,244,75)		RS1/16S472J
R	563 (A,244,58)		RS1/16S102J
R	564 (A,244,57)		RS1/16S102J
R	565 (B,268,42)		RS1/16S0R0J
R	566 (B,275,42)		RS1/16S0R0J
R	571 (B,256,33)		RS1/16S0R0J
R	572 (B,234,53)		RS1/16S0R0J
R	601 (B,222,22)		RS1/16S0R0J
R	663 (B,133,76)		RS1/16S472J
R	664 (B,133,88)		RS1/16S472J
R	665 (B,133,72)		RS1/16S101J
R	666 (B,133,84)		RS1/16S101J
R	701 (A,203,61)		RS1/16S473J
R	702 (A,208,61)		RS1/16S473J
R	703 (B,204,60)		RS1/16S332J
R	704 (B,207,60)		RS1/16S332J

Mark	No.	Description	Part No.
R	705	(B,202,60)	RS1/16S332J
R	706	(B,209,60)	RS1/16S332J
R	707	(B,202,64)	RS1/16S392J
R	708	(B,209,64)	RS1/16S392J
R	709	(B,204,64)	RS1/16S472J
R	710	(B,207,64)	RS1/16S472J
R	711	(B,204,68)	RS1/16S272J
R	712	(B,207,68)	RS1/16S272J
R	713	(B,202,72)	RS1/16S331J
R	714	(B,209,72)	RS1/16S331J
R	715	(B,204,72)	RS1/16S474J
R	716	(B,207,72)	RS1/16S474J
R	719	(B,223,80)	RS1/16S0R0J
R	720	(B,216,80)	RS1/16S0R0J
R	721	(B,223,77)	RS1/16S472J
R	722	(B,216,77)	RS1/16S472J
R	723	(A,226,70)	RS1/16S472J
R	724	(A,213,70)	RS1/16S472J
R	725	(A,226,74)	RS1/16S122J
R	726	(A,213,74)	RS1/16S122J
R	727	(B,223,73)	RS1/16S392J
R	728	(B,216,73)	RS1/16S392J
R	731	(B,225,66)	RS1/16S101J
R	732	(B,214,66)	RS1/16S101J
R	733	(A,226,48)	RS1/16S473J
R	741	(A,175,61)	RS1/16S473J
R	742	(A,180,61)	RS1/16S473J
R	743	(B,176,60)	RS1/16S272J
R	744	(B,179,60)	RS1/16S332J
R	745	(B,174,60)	RS1/16S272J
R	746	(B,181,60)	RS1/16S562J
R	747	(B,174,64)	RS1/16S272J
R	748	(B,181,64)	RS1/16S393J
R	749	(B,176,64)	RS1/16S392J
R	750	(B,179,64)	RS1/16S182J
R	751	(B,176,68)	RS1/16S122J
R	752	(B,179,68)	RS1/16S362J
R	753	(B,174,72)	RS1/16S221J
R	754	(B,181,72)	RS1/16S121J
R	757	(B,172,79)	RS1/16S101J
R	758	(B,183,79)	RS1/16S101J
R	761	(A,189,61)	RS1/16S473J
R	762	(A,194,61)	RS1/16S473J
R	763	(B,190,60)	RS1/16S272J
R	764	(B,193,60)	RS1/16S272J
R	765	(B,188,60)	RS1/16S272J
R	766	(B,195,60)	RS1/16S272J
R	767	(B,188,64)	RS1/16S272J
R	768	(B,195,64)	RS1/16S272J
R	769	(B,190,64)	RS1/16S392J
R	770	(B,193,64)	RS1/16S392J
R	771	(B,190,68)	RS1/16S122J
R	772	(B,193,68)	RS1/16S122J
R	773	(B,188,72)	RS1/16S221J
R	774	(B,195,72)	RS1/16S221J
R	777	(B,186,79)	RS1/16S101J
R	778	(B,197,79)	RS1/16S101J
R	781	(A,161,61)	RS1/16S473J
R	782	(A,166,61)	RS1/16S473J
R	783	(B,162,60)	RS1/16S272J

Mark	No.	Description	Part No.
R	784	(B,165,60)	RS1/16S272J
R	785	(B,160,60)	RS1/16S272J
R	786	(B,167,60)	RS1/16S272J
R	787	(B,160,64)	RS1/16S272J
R	788	(B,167,64)	RS1/16S272J
R	789	(B,162,64)	RS1/16S392J
R	790	(B,165,64)	RS1/16S392J
R	791	(B,162,68)	RS1/16S122J
R	792	(B,165,68)	RS1/16S122J
R	793	(B,160,72)	RS1/16S221J
R	794	(B,167,72)	RS1/16S221J
R	797	(B,158,79)	RS1/16S101J
R	798	(B,169,79)	RS1/16S101J
R	801	(B,262,165)	RS1/16S223J
R	802	(B,262,176)	RS1/16S223J
R	805	(A,266,165)	RS1/16S682J
R	806	(A,266,175)	RS1/16S682J
R	807	(A,269,168)	RS1/16S331J
R	808	(A,269,173)	RS1/16S331J
R	811	(A,263,165)	RS1/16S153J
R	812	(A,263,175)	RS1/16S153J
R	815	(B,262,194)	RS1/16S104J
R	816	(B,262,186)	RS1/16S104J
R	821	(B,262,134)	RS1/16S223J
R	822	(B,262,144)	RS1/16S223J
R	825	(A,266,134)	RS1/16S682J
R	826	(A,266,144)	RS1/16S682J
R	827	(A,269,137)	RS1/16S331J
R	828	(A,269,142)	RS1/16S331J
R	831	(A,263,134)	RS1/16S153J
R	832	(A,263,144)	RS1/16S153J
R	835	(B,275,194)	RS1/16S104J
R	836	(B,275,186)	RS1/16S104J
R	841	(B,262,149)	RS1/16S223J
R	842	(B,262,160)	RS1/16S223J
R	845	(A,266,150)	RS1/16S682J
R	846	(A,266,160)	RS1/16S682J
R	847	(A,269,152)	RS1/16S331J
R	848	(A,269,157)	RS1/16S331J
R	851	(A,263,150)	RS1/16S153J
R	852	(A,263,160)	RS1/16S153J
R	855	(B,269,194)	RS1/16S104J
R	856	(B,269,186)	RS1/16S104J
R	861	(B,262,118)	RS1/16S223J
R	862	(B,262,129)	RS1/16S223J
R	865	(A,266,118)	RS1/16S682J
R	866	(A,266,128)	RS1/16S682J
R	867	(A,269,121)	RS1/16S331J
R	868	(A,269,126)	RS1/16S331J
R	871	(A,263,118)	RS1/16S153J
R	872	(A,263,128)	RS1/16S153J
R	875	(B,282,194)	RS1/16S104J
R	876	(B,282,186)	RS1/16S104J
R	883	(A,253,116)	RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	501	(B,307,56)	CCSRCH101J50
C	502	(B,307,51)	CCSRCH101J50
C	503	(B,307,69)	CCSRCH221J50

Mark	No.	Description	Part No.
C	504 (B,307,64)		CCSRCH221J50
C	505 (B,307,84)		CCSRCH101J50
C	506 (B,307,79)		CCSRCH101J50
C	507 (B,307,97)		CCSRCH101J50
C	508 (B,307,92)		CCSRCH101J50
C	509 (B,307,110)		CCSRCH101J50
C	510 (B,307,107)		CCSRCH101J50
C	511 (B,307,128)		CCSRCH221J50
C	512 (B,307,118)		CCSRCH221J50
C	513 (B,307,140)		CCSRCH101J50
C	514 (B,307,134)		CCSRCH101J50
C	515 (B,307,210)		CCSRCH101J50
C	516 (B,307,205)		CCSRCH101J50
C	517 (B,307,223)		CCSRCH101J50
C	518 (B,307,218)		CCSRCH101J50
C	519 (B,307,154)		CCSRCH221J50
C	520 (B,307,149)		CCSRCH221J50
C	521 (B,307,167)		CCSRCH101J50
C	522 (B,307,162)		CCSRCH101J50
C	523 (B,307,182)		CCSRCH101J50
C	524 (B,307,177)		CCSRCH101J50
C	525 (B,307,195)		CCSRCH101J50
C	526 (B,307,190)		CCSRCH101J50
C	527 (B,297,49)		CCSRCH151J50
C	528 (B,298,44)		CCSRCH151J50
C	531 (B,297,83)		CCSRCH151J50
C	532 (B,298,79)		CCSRCH151J50
C	533 (B,297,96)		CCSRCH151J50
C	534 (B,298,92)		CCSRCH151J50
C	535 (B,297,109)		CCSRCH151J50
C	536 (B,298,105)		CCSRCH151J50
C	539 (B,297,141)		CCSRCH151J50
C	540 (B,298,137)		CCSRCH151J50
C	541 (B,297,209)		CCSRCH101J50
C	542 (B,298,203)		CCSRCH101J50
C	543 (B,300,222)		CCSRCH101J50
C	544 (B,300,216)		CCSRCH101J50
C	547 (B,297,167)		CCSRCH151J50
C	548 (B,298,163)		CCSRCH151J50
C	549 (B,297,182)		CCSRCH101J50
C	550 (B,298,177)		CCSRCH101J50
C	551 (B,297,194)		CCSRCH101J50
C	552 (B,297,190)		CCSRCH101J50
C	553 (A,300,51)	ELECT. CAPACITOR	CEAT470M25
C	554 (A,300,42)	ELECT. CAPACITOR	CEAT470M25
C	555 (A,300,73)		CEAT100M50
C	556 (A,300,64)		CEAT100M50
C	557 (A,300,86)	ELECT. CAPACITOR	CEAT470M25
C	558 (A,300,77)	ELECT. CAPACITOR	CEAT470M25
C	559 (A,300,99)	ELECT. CAPACITOR	CEAT470M25
C	560 (A,300,90)	ELECT. CAPACITOR	CEAT470M25
C	561 (A,300,112)	ELECT. CAPACITOR	CEAT470M25
C	562 (A,300,103)	ELECT. CAPACITOR	CEAT470M25
C	563 (A,300,131)		CEAT100M50
C	564 (A,300,120)		CEAT100M50
C	565 (A,300,144)	ELECT. CAPACITOR	CEAT470M25
C	566 (A,300,135)	ELECT. CAPACITOR	CEAT470M25
C	567 (A,300,210)	ELECT. CAPACITOR	CEAT470M25
C	568 (A,300,201)	ELECT. CAPACITOR	CEAT470M25
C	569 (A,293,210)	ELECT. CAPACITOR	CEAT470M25
C	570 (A,293,201)	ELECT. CAPACITOR	CEAT470M25
C	571 (A,300,157)		CEAT100M50
C	572 (A,300,148)		CEAT100M50
C	573 (A,300,170)	ELECT. CAPACITOR	CEAT470M25
C	574 (A,300,161)	ELECT. CAPACITOR	CEAT470M25
C	575 (A,300,184)	ELECT. CAPACITOR	CEAT470M25
C	576 (A,300,175)	ELECT. CAPACITOR	CEAT470M25
C	577 (A,300,197)	ELECT. CAPACITOR	CEAT470M25
C	578 (A,300,188)	ELECT. CAPACITOR	CEAT470M25
C	579 (A,270,87)		CEAT101M16
C	580 (A,268,95)		CEAT101M16
C	581 (A,264,87)		CEAT101M16
C	582 (A,262,95)		CEAT101M16
C	583 (A,258,87)		CEAT101M16
C	584 (A,256,95)		CEAT101M16
C	585 (A,252,87)		CEAT101M16
C	586 (A,250,95)		CEAT101M16
C	587 (A,247,84)		CKSRYB473K50
C	588 (A,246,84)		CKSRYB154K10
C	589 (A,244,84)		CKSRYB223K50
C	590 (A,247,76)		CKSRYB473K50
C	591 (A,247,74)		CKSRYB154K10
C	592 (A,244,73)		CKSRYB223K50
C	593 (A,248,59)		CCSRCH101J50
C	594 (A,247,59)		CCSRCH101J50
C	595 (A,247,79)		CKSRYB103K50
C	596 (A,247,78)		CKSRYB103K50
C	599 (A,269,35)		CEJQ100M25
C	600 (A,274,35)		CEJQ100M25
C	641 (B,309,114)		CKSRYB103K50
C	642 (B,309,88)		CKSRYB103K50
C	643 (B,309,214)		CKSRYB103K50
C	644 (B,309,158)		CKSRYB103K50
C	645 (B,309,186)		CKSRYB103K50
C	661 (A,50,48)	ELECT. CAPACITOR	CEAT222M25
C	662 (A,64,48)	ELECT. CAPACITOR	CEAT222M25
C	673 (A,130,76)		CEAT2R2M50
C	674 (A,130,86)		CEAT2R2M50
C	675 (A,143,76)		CEAT100M50
C	676 (A,143,86)		CEAT100M50
C	701 (A,202,53)		CEAT2R2M50
C	702 (A,208,53)		CEAT2R2M50
C	703 (A,203,62)		CCSRCH471J50
C	704 (A,208,62)		CCSRCH471J50
C	705 (A,203,64)		CCSRCH331J50
C	706 (A,208,64)		CCSRCH331J50
C	707 (B,202,68)		CCSRCH391J50
C	708 (B,209,68)		CCSRCH391J50
C	709 (A,202,76)		CEAT100M50
C	710 (A,209,76)		CEAT100M50
C	713 (A,223,69)		CEAT100M50
C	714 (A,216,69)		CEAT100M50
C	717 (A,208,72)		CKSRYB103K50
C	718 (A,203,72)		CKSRYB103K50
C	719 (A,217,77)		CKSRYB104K50
C	720 (A,222,77)		CKSRYB104K50
C	721 (A,224,53)		CKSRYB103K50
C	722 (A,215,56)		CKSRYB103K50
C	741 (A,174,53)		CEAT2R2M50
C	742 (A,180,53)		CEAT2R2M50

Mark	No.	Description	Part No.
C	743 (A,175,62)		CCSRCH331J50
C	744 (A,180,62)		CKSRYB223K50
C	745 (A,175,64)		CCSRCH331J50
C	746 (A,180,64)		CKSRYB103K50
C	747 (B,174,68)		CCSRCH471J50
C	748 (B,181,68)		CKSRYB682K50
C	749 (A,174,76)		CEAT100M50
C	750 (A,181,76)		CEAT100M50
C	751 (B,176,79)		CKSRYB472K50
C	752 (B,179,79)		CKSRYB472K50
C	753 (A,180,72)		CKSRYB103K50
C	754 (A,175,72)		CKSRYB103K50
C	761 (A,188,53)		CEAT2R2M50
C	762 (A,194,53)		CEAT2R2M50
C	763 (A,189,62)		CCSRCH331J50
C	764 (A,194,62)		CCSRCH331J50
C	765 (A,189,64)		CCSRCH331J50
C	766 (A,194,64)		CCSRCH331J50
C	767 (B,188,68)		CCSRCH471J50
C	768 (B,195,68)		CCSRCH471J50
C	769 (A,188,76)		CEAT100M50
C	770 (A,195,76)		CEAT100M50
C	771 (B,190,79)		CKSRYB472K50
C	772 (B,193,79)		CKSRYB472K50
C	773 (A,194,72)		CKSRYB103K50
C	774 (A,189,72)		CKSRYB103K50
C	781 (A,160,53)		CEAT2R2M50
C	782 (A,166,53)		CEAT2R2M50
C	783 (A,161,62)		CCSRCH331J50
C	784 (A,166,62)		CCSRCH331J50
C	785 (A,161,64)		CCSRCH331J50
C	786 (A,166,64)		CCSRCH331J50
C	787 (B,160,68)		CCSRCH471J50
C	788 (B,167,68)		CCSRCH471J50
C	789 (A,160,76)		CEAT100M50
C	790 (A,167,76)		CEAT100M50
C	791 (B,162,79)		CKSRYB472K50
C	792 (B,165,79)		CKSRYB472K50
C	793 (A,166,72)		CKSRYB103K50
C	794 (A,161,72)		CKSRYB103K50
C	801 (A,253,108)		CEAT4R7M50
C	802 (A,253,101)		CEAT4R7M50
C	805 (A,263,164)		CCSRCH101J50
C	806 (A,263,176)		CCSRCH101J50
C	807 (A,260,192)	ELECT. CAPACITOR	CEAT470M25
C	808 (A,260,185)	ELECT. CAPACITOR	CEAT470M25
C	809 (A,260,168)		CKSRYB103K50
C	810 (A,260,173)		CKSRYB103K50
C	821 (A,265,108)		CEAT4R7M50
C	822 (A,265,101)		CEAT4R7M50
C	825 (A,263,133)		CCSRCH101J50
C	826 (A,263,145)		CCSRCH101J50
C	827 (A,273,192)	ELECT. CAPACITOR	CEAT470M25
C	828 (A,273,185)	ELECT. CAPACITOR	CEAT470M25
C	829 (A,260,137)		CKSRYB103K50
C	830 (A,260,142)		CKSRYB103K50
C	841 (A,259,108)		CEAT4R7M50
C	842 (A,259,101)		CEAT4R7M50
C	845 (A,263,148)		CCSRCH101J50
C	846 (A,263,161)		CCSRCH101J50
C	847 (A,266,192)	ELECT. CAPACITOR	CEAT470M25
C	848 (A,266,185)	ELECT. CAPACITOR	CEAT470M25
C	849 (A,260,152)		CKSRYB103K50
C	850 (A,260,157)		CKSRYB103K50
C	861 (A,271,108)		CEAT4R7M50
C	862 (A,271,101)		CEAT4R7M50
C	865 (A,263,117)		CCSRCH101J50
C	866 (A,263,129)		CCSRCH101J50
C	867 (A,279,192)	ELECT. CAPACITOR	CEAT470M25
C	868 (A,279,185)	ELECT. CAPACITOR	CEAT470M25
C	869 (A,260,121)		CKSRYB103K50
C	870 (A,260,126)		CKSRYB103K50

B 12V-REG ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	661 (A,12,90)	REGULATOR IC	NJM78M12FA
⚠ IC	662 (A,39,90)	REGULATOR IC	NJM79M12FA
D	665 (B,28,90)	CHIP DIODE	RB501V-40
D	666 (B,56,88)	CHIP DIODE	RB501V-40
	663 (A,46,77)	6P CABLE HOLDER	51048-0600

CAPACITORS

Mark	No.	Description	Part No.
C	667 (B,11,86)		CKSRYB103K50
C	668 (B,39,86)		CKSRYB103K50
C	669 (A,25,92)		CEAT221M25
C	670 (A,52,92)		CEAT221M25

C MAIN CONTROL ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	101 (A,152,186)	CPU	PEG378A8
IC	103 (A,114,172)	PORT EXPANDER IC	BU4094BCFV
IC	104 (A,127,190)	RESET IC	BU4842F
IC	106 (A,126,200)	IC	TC74VHCT08AFTS1
IC	107 (A,101,131)	IC	TC74VHCT125AFTS1
IC	108 (A,99,165)	OCTAL BUS BUFFER IC	TC74VHCT244AFTS1
IC	109 (A,123,174)	LOGIC IC	TC74VHCT32AFT
IC	251 (A,110,192)	RDS DECORDER IC	LC72725KM
IC	253 (A,178,185)	EEPROM	BR24L16FV-W
IC	301 (A,157,130)	CPU	PEG117A
IC	302 (A,184,132)	FLASH ROM	AYW7168
IC	304 (A,95,113)	IC	TC74VHCT125AFTS1
IC	305 (A,130,139)	IC	TC74VHC02FTS1
IC	306 (A,94,131)	IC	TC74VHC125FTS1
IC	307 (A,160,210)	IC	TC74VHC08FTS1
IC	308 (A,114,132)	IC	TC74LCX244FTS1
⚠ IC	310 (A,198,141)	IC	NJM2391DL1-33
Q	101 (B,105,182)	DIGITAL TR(SC-70)	RT1N431M
Q	103 (B,137,182)	CHIP TR(DUAL)	RN2901
Q	104 (A,120,194)	CHIP TR (PNP X 2)	UMB1N
Q	105 (B,189,204)	CHIP TR (PNP X 2)	UMB1N
Q	106 (B,190,196)	CHIP TR (PNP X 2)	UMB1N
Q	107 (B,93,148)	TRANSISTOR	RT1N241M
Q	108 (B,94,142)	CHIP TR (PNP X 2)	UMB1N
Q	109 (A,98,179)	DIGITAL TR(SC-70)	RT1P241M
Q	110 (A,104,179)	DIGITAL TR(SC-70)	RT1P241M
Q	111 (B,102,174)	TRANSISTOR	2SA1576A
Q	301 (B,215,147)	TRANSISTOR	2SA1036K
Q	302 (B,212,137)	TRANSISTOR	RT1N241M
D	101 (B,137,176)	DIODE	DAN202U

Mark	No.	Description	Part No.
D	102 (A,203,194)	DIODE	DAN202U
D	103 (A,189,188)	DIODE	1SS355
D	104 (B,186,185)	DIODE	DAP202U
D	105 (B,186,189)	DIODE	DAN202U
D	106 (B,189,212)	DIODE	UDZS5R1(B)
D	107 (A,117,193)	DIODE	DAN202U
D	108 (A,200,193)	DIODE	RB520S-30
D	114 (B,101,144)	DIODE	1SS355
D	291 (A,30,137)	DIODE	1SS355
D	301 (B,214,142)	DIODE	DAN202U
D	302 (A,190,119)	CHIP DIODE	RB501V-40
L	101 (B,194,178)	CHIP SOLID INDUCTOR	ATL7002
L	102 (B,200,205)	CHIP SOLID INDUCTOR	ATL7002
L	281 (B,31,202)	CHIP SOLID INDUCTOR	QTL1013
L	291 (A,26,138)	INDUCTOR	CTF1473
L	292 (A,26,137)	INDUCTOR	CTF1473
L	293 (A,26,135)	INDUCTOR	CTF1473
L	294 (A,26,134)	INDUCTOR	CTF1473
L	295 (A,29,144)	INDUCTOR	CTF1473
L	301 (A,191,152)	CHIP SOLID INDUCTOR	QTL1013
L	381 (B,74,189)	CHIP SOLID INDUCTOR	QTL1013
JA	281 (A,17,170)	OPT. LINK IN	AKS7001
JA	282 (A,17,183)	OPT. LINK IN	AKS7001
JA	283 (A,17,197)	OPT. LINK IN	AKS7001
JA	284 (A,17,210)	OPT. LINK OUT	AKS7002
JA	291 (A,9,131)	MINI JACK(4P) /W SW	XKN3015
JA	292 (A,11,143)	JACK REMOCON JACK	RKN1004
KN	281 (A,13,153)	SCREW PLATE	VNE1948
X	101 (A,134,187)	CERAMIC RESONATOR	XSS3004
X	251 (A,107,201)	CRYSTAL RESONATOR	ASS7004
X	301 (A,144,131)	CERAMIC RESONATOR	XSS3004
CN	101 (A,208,215)	CONNECTOR	CKS3394
CN	102 (A,223,129)	9P JUMPER CONNECTOR	52147-0910
CN	103 (A,197,187)	CONNECTOR	CKS3384
CN	104 (A,60,177)	11P PLUG	XKP3065
CN	106 (A,111,212)	23P SOCKET	XKP3082
CN	107 (A,31,177)	13P PLUG	XKP3066
CN	108 (A,29,153)	13P PLUG	XKP3066
CN	109 (A,53,153)	15P PLUG	XKP3067
CN	110 (A,56,130)	11P PLUG	XKP3065
CN	111 (A,28,130)	13P PLUG	XKP3066
CN	112 (A,64,102)	23P SOCKET	XKP3082
CN	113 (A,94,180)	CONNECTOR	CKS3382
CN	281 (A,33,209)	23P PLUG	XKP3071
CN	301 (A,170,98)	PLUG	CKS1764
CN	302 (A,199,102)	23P SOCKET	XKP3082
	102 (A,218,163)	PCB BINDER	VEF1040
	101 (A,218,170)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	101 (A,138,195)		RAB4C101J
R	102 (A,138,190)		RS1/16S101J
R	103 (A,132,168)		RAB4C101J
R	104 (A,138,174)		RAB4C101J
R	105 (A,146,170)		RAB4C101J
R	106 (A,151,170)		RAB4C101J
R	107 (A,165,178)		RAB4C101J
R	108 (A,168,181)		RAB4C101J
R	109 (A,152,208)		RAB4C101J
R	110 (A,135,190)		RS1/16S101J
R	111 (A,134,195)		RS1/16S104J
R	112 (A,134,193)		RS1/16S101J
R	113 (A,139,181)		RS1/16S101J
R	114 (A,133,182)		RS1/16S101J
R	115 (B,145,182)		RS1/16S101J
R	116 (B,111,180)		RS1/16S473J
R	117 (A,137,193)		RS1/16S103J
R	118 (B,150,188)		RS1/16S512J
R	120 (A,132,188)		RS1/16S101J
R	121 (A,130,190)		RS1/16S104J
R	123 (B,145,187)		RS1/16S473J
R	124 (A,138,183)		RS1/16S101J
R	125 (A,127,184)		RS1/16S101J
R	126 (A,133,180)		RS1/16S101J
R	127 (A,133,179)		RS1/16S101J
R	128 (B,107,183)		RS1/16S222J
R	129 (B,105,174)		RS1/16S222J
R	133 (A,130,184)		RS1/16S104J
R	134 (B,155,164)		RS1/16S104J
R	136 (B,152,174)		RS1/16S222J
R	137 (B,142,160)		RS1/16S474J
R	138 (B,154,179)		RS1/16S104J
R	140 (A,144,176)		RS1/16S472J
R	141 (B,138,164)		RS1/16S101J
R	142 (A,163,173)		RS1/16S104J
R	145 (A,167,184)		RS1/16S101J
R	151 (A,142,204)		RS1/16S473J
R	153 (A,141,204)		RS1/16S473J
R	155 (A,148,208)		RS1/16S222J
R	157 (B,179,202)		RS1/16S104J
R	160 (A,136,201)		RS1/16S101J
R	161 (B,200,201)		RS1/16S0R0J
R	162 (B,195,213)		RS1/16S223J
R	164 (B,181,184)		RS1/16S105J
R	166 (B,188,185)		RS1/16S105J
R	169 (A,125,180)		RS1/16S473J
R	170 (A,115,167)		RS1/16S473J
R	172 (A,112,167)		RS1/16S561J
R	178 (B,106,189)		RS1/16S470J
R	180 (A,216,120)		RAB4C473J
R	181 (A,105,132)		RS1/16S101J
R	182 (A,102,137)		RS1/16S182J
R	183 (A,101,137)		RS1/16S104J
R	184 (A,99,137)		RS1/16S104J
R	185 (A,101,122)		RS1/16S101J
R	186 (A,96,125)		RS1/16S104J
R	187 (A,103,125)		RS1/16S0R0J
R	188 (A,122,180)		RS1/16S0R0J
R	189 (A,96,171)		RS1/16S104J
R	190 (A,98,171)		RS1/16S104J
R	191 (A,101,171)		RS1/16S104J
R	192 (A,100,171)		RS1/16S104J
R	193 (A,91,125)		RS1/16S104J
R	194 (A,117,179)		RS1/16S101J
R	251 (A,116,198)		RS1/16S473J
R	252 (A,104,195)		RS1/16S102J
R	253 (A,106,184)		RS1/16S102J
R	254 (A,106,186)		RS1/16S102J
R	262 (A,174,182)		RS1/16S472J

Mark	No.	Description	Part No.
R	263 (A,175,182)		RS1/16S103J
R	264 (A,172,185)		RS1/16S471J
R	265 (A,172,186)		RS1/16S471J
R	281 (B,24,170)		RS1/16S101J
R	282 (B,23,183)		RS1/16S101J
R	283 (B,24,197)		RS1/16S101J
R	301 (A,145,137)		RAB4C101J
R	302 (A,135,134)		RAB4C101J
R	305 (A,142,121)		RAB4C101J
R	306 (B,158,128)		RS1/16S101J
R	307 (A,156,142)		RAB4C101J
R	308 (A,146,142)		RAB4C101J
R	309 (A,153,119)		RS1/16S101J
R	310 (A,139,130)		RS1/16S473J
R	311 (B,153,139)		RS1/16S472J
R	312 (A,140,140)		RS1/16S473J
R	313 (A,135,144)		RS1/16S101J
R	314 (A,138,138)		RS1/16S101J
R	315 (A,125,135)		RS1/16S101J
R	316 (A,137,140)		RS1/16S473J
R	317 (B,147,134)		RS1/16S473J
R	318 (B,147,113)		RS1/16S473J
R	322 (B,156,129)		RS1/16S101J
R	323 (B,160,128)		RS1/16S101J
R	324 (B,168,114)		RS1/16S101J
R	325 (B,163,115)		RS1/16S473J
R	326 (B,161,119)		RS1/16S473J
R	327 (B,166,118)		RS1/16S473J
R	328 (A,164,117)		RS1/16S101J
R	329 (A,166,117)		RS1/16S101J
R	330 (A,165,120)		RS1/16S101J
R	334 (B,158,140)		RS1/16S473J
R	335 (B,163,129)		RS1/16S101J
R	336 (B,151,137)		RS1/16S101J
R	337 (B,147,136)		RS1/16S473J
R	340 (B,180,142)		RS1/16S473J
R	344 (B,122,157)		RS1/16S104J
R	345 (A,125,167)		RS1/16S104J
R	346 (A,100,116)		RS1/16S101J
R	347 (B,211,147)		RS1/16S473J
R	348 (B,212,143)		RS1/16S222J
R	349 (B,110,132)		RS1/16S104J
R	350 (B,104,136)		RS1/16S104J
R	351 (B,112,132)		RS1/16S104J
R	352 (B,108,146)		RS1/16S104J
R	353 (A,111,125)		RS1/16S104J
R	354 (A,110,125)		RS1/16S104J
R	355 (B,115,129)		RS1/16S104J
R	357 (B,90,139)		RS1/16S104J
R	361 (B,162,113)		RS1/16S331J
R	362 (B,151,113)		RS1/16S331J
R	363 (B,141,104)		RS1/16S331J
R	364 (B,171,115)		RS1/16S331J
R	385 (B,92,107)		RS1/16S0R0J
R	9001(A,227,111)		RS1/16S0R0J
R	9003(A,222,115)		RS1/16S0R0J
R	9005(A,221,117)		RS1/16S0R0J
R	9010(A,219,114)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	101 (B,195,174)		CKSRYB103K50
C	102 (A,197,176)	ELECTR.CAPACITOR	CEAT102M10
C	103 (B,192,177)		CKSRYB103K50
C	104 (A,147,197)		CKSRYB104K16
C	106 (A,124,192)		CKSRYB105K16
C	108 (A,137,186)		CKSRYB104K16
C	110 (B,148,180)		CKSRYB472K50
C	113 (A,165,185)		CKSRYB104K16
C	118 (A,110,176)		CKSRYB104K16
C	119 (A,185,210)		CEAT100M50
C	120 (B,184,184)		CKSRYB473K25
C	121 (B,191,185)		CKSRYB473K25
C	125 (A,100,188)		CEAT471M6R3
C	127 (A,122,202)		CKSRYB104K16
C	128 (A,97,131)		CKSRYB104K16
C	129 (A,94,166)		CKSRYB104K16
C	130 (A,120,174)		CKSRYB104K16
C	139 (A,110,169)		CCSRCH561J50
C	251 (A,111,182)		CEAT100M50
C	253 (A,114,187)		CCSRCH561J50
C	254 (A,118,205)		CEAT101M10
C	255 (A,112,197)		CKSRYB102K50
C	256 (B,112,204)		CCSRCH270J50
C	257 (B,109,204)		CCSRCH270J50
C	260 (A,109,185)		CKSRYB472K50
C	262 (A,178,182)		CKSRYB103K50
C	281 (B,23,175)		CKSRYB104K16
C	282 (B,23,187)		CKSRYB104K16
C	283 (B,22,203)		CKSRYB104K16
C	284 (B,22,211)		CKSRYB104K16
C	285 (A,31,198)		CEAT101M10
C	293 (B,24,159)		CKSRYB104K16
C	301 (A,208,143)	ELECTR.CAPACITOR	CEAT102M10
C	302 (B,204,144)		CKSRYB104K16
C	304 (A,199,131)		CEAT331M10
C	305 (A,142,128)		CKSRYB104K16
C	307 (A,172,130)		CKSRYB104K16
C	309 (A,152,142)		CKSRYB104K16
C	311 (A,184,145)		CKSRYB104K16
C	315 (A,92,113)		CKSRYB104K16
C	316 (A,126,140)		CKSRYB104K16
C	317 (A,90,132)		CKSRYB104K16
C	318 (A,164,209)		CKSRYB104K16
C	319 (A,110,135)		CKSRYB104K16

D GUARD-C ASSY

GUARD-C Assy has no service part.

E GUARD-F ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	921 (A,245,238)	PCB BINDER	VEF1040

G DSP ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	101 (A,58,43)	DSP IC	ADSP-21366KBCZ-1AA
IC	103 (A,17,46)	LOGIC IC (LATCHES)	TC74VHC573FTS1

Mark	No.	Description	Part No.
IC	104 (B,17,21)	LOGIC IC (LATCHES)	TC74VHC573FTS1
IC	105 (B,24,16)	2 TO 4 LINE DECODER	TC7W139FU
IC	106 (A,11,29)	FLASH ROM	AYW7167
IC	107 (A,34,52)	SRAM(4M)	CY7C1049D3310VXI
IC	109 (B,9,20)	1 CHIP OR GATE	TC7SH32FUS1
IC	201 (A,113,38)	DSP IC	DSPC56371AF180
IC	291 (B,146,42)	IC	TC74VHC08FTS1
IC	301 (A,191,37)	DA I/F TRANSCEIVER	AK4114VQ
IC	401 (A,154,29)	AUDIO 8CH DAC	AK4359VF
IC	481 (A,176,28)	AD CONVERTER IC	AK5358AET
IC	551 (A,106,23)	LOGIC IC	TC7WHU04FU
IC	552 (A,93,16)	LOGIC IC	TC7SHU04FUS1
IC	651 (A,163,44)	IC	TC74VHC157FTS1
IC	701 (A,164,60)	LIPSYNC IC	ML87V5002
IC	751 (B,164,60)	LIPSYNC IC	ML87V5002
⚠ IC	901 (A,48,16)	DC/DC CONVERTER IC	BD9107FVM
⚠ IC	903 (A,208,28)	REGURATOR IC	PQ1LAX95MSPQ
⚠ IC	904 (B,192,27)	REGURATOR IC	PQ1LAX95MSPQ
D	401 (B,167,23)	DIODE	MA152WA
D	402 (A,164,20)	DIODE	MA152WK
L	101 (A,70,40)	CHIP SOLID INDUCTOR	QTL1013
L	103 (A,45,42)	CHIP SOLID INDUCTOR	QTL1013
L	104 (A,20,52)	CHIP SOLID INDUCTOR	QTL1013
L	105 (B,13,16)	CHIP SOLID INDUCTOR	QTL1013
L	106 (B,27,20)	CHIP SOLID INDUCTOR	QTL1013
L	107 (B,13,36)	CHIP SOLID INDUCTOR	QTL1013
L	108 (B,34,55)	CHIP SOLID INDUCTOR	QTL1013
L	201 (B,106,31)	CHIP SOLID INDUCTOR	QTL1013
L	202 (A,127,41)	CHIP SOLID INDUCTOR	ATL7002
L	203 (A,117,26)	CHIP SOLID INDUCTOR	ATL7002
L	291 (B,151,42)	CHIP SOLID INDUCTOR	QTL1013
L	301 (B,185,41)	CHIP SOLID INDUCTOR	QTL1013
L	302 (A,180,35)	CHIP SOLID INDUCTOR	QTL1013
L	401 (B,160,25)	CHIP SOLID INDUCTOR	QTL1013
L	481 (B,169,32)	CHIP SOLID INDUCTOR	QTL1013
L	482 (B,182,26)	CHIP SOLID INDUCTOR	QTL1013
L	551 (A,109,23)	CHIP SOLID INDUCTOR	QTL1013
L	651 (A,159,40)	CHIP SOLID INDUCTOR	QTL1013
L	701 (A,152,66)	CHIP SOLID INDUCTOR	QTL1013
L	751 (B,186,55)	CHIP SOLID INDUCTOR	QTL1013
L	901 (B,195,22)	CHIP SOLID INDUCTOR	ATL7002
L	902 (B,188,23)	CHIP SOLID INDUCTOR	ATL7002
L	903 (B,182,24)	CHIP SOLID INDUCTOR	ATL7002
L	905 (A,63,22)	CHIP BEADS	ATL7010
L	906 (A,47,23)	POWER INDUCTOR	ATH7047
JA	351 (A,225,22)	JACK	AKB7131
X	551 (A,98,22)	CRYSTAL RESONATOR	XSS3003
CN	301 (A,185,47)	10P CONNECTOR	VKN1414
CN	401 (A,165,15)	23P SOCKET	XKP3083
CN	801 (A,141,61)	B TO B CONNECTOR 30P	VKN1627
CN	901 (A,173,11)	PLUG	CKS1764
CN	951 (A,128,15)	23P SOCKET	XKP3083

RESISTORS

Mark	No.	Description	Part No.
R	103 (A,50,45)		RS1/16SS101J
R	104 (A,50,47)		RS1/16SS101J
R	106 (A,51,34)	RESISTOR ARRAY	RAB4CQ472J
R	107 (A,54,51)		RS1/16SS472J
R	108 (A,56,34)		RS1/16SS472J
R	109 (A,54,34)		RS1/16SS101J
R	111 (A,53,51)		RS1/16SS472J
R	112 (A,56,51)		RS1/16SS101J
R	113 (A,57,51)		RS1/16SS101J
R	114 (A,58,51)		RS1/16SS101J
R	115 (A,59,51)		RS1/16SS220J
R	116 (A,58,34)	RESISTOR ARRAY	RAB4CQ220J
R	117 (A,60,51)		RS1/16SS220J
R	118 (A,61,51)		RS1/16SS471J
R	119 (A,61,34)	RESISTOR ARRAY	RAB4CQ220J
R	120 (A,63,34)		RS1/16SS470J
R	121 (A,63,51)	RESISTOR ARRAY	RAB4CQ101J
R	122 (A,65,34)		RS1/16SS470J
R	123 (A,66,38)		RS1/16SS220J
R	124 (A,66,36)	RESISTOR ARRAY	RAB4CQ220J
R	125 (A,66,40)	RESISTOR ARRAY	RAB4CQ220J
R	126 (A,66,47)	RESISTOR ARRAY	RAB4CQ220J
R	127 (A,46,39)		RS1/16SS472J
R	128 (A,49,38)		RS1/16SS472J
R	129 (A,45,45)		RS1/16SS472J
R	132 (A,50,44)		RS1/16SS101J
R	134 (A,50,46)		RS1/16SS101J
R	136 (A,50,48)		RS1/16SS101J
R	138 (A,50,39)		RS1/16SS101J
R	139 (A,66,44)		RS1/16SS101J
R	140 (A,66,43)		RS1/16SS101J
R	141 (B,14,47)	RESISTOR ARRAY	RAB4CQ470J
R	142 (B,14,44)	RESISTOR ARRAY	RAB4CQ470J
R	143 (B,16,26)	RESISTOR ARRAY	RAB4CQ470J
R	144 (B,18,26)	RESISTOR ARRAY	RAB4CQ470J
R	145 (B,21,45)	RESISTOR ARRAY	RAB4CQ470J
R	146 (B,21,47)	RESISTOR ARRAY	RAB4CQ470J
R	147 (B,16,15)		RS1/16SS470J
R	148 (B,19,15)	RESISTOR ARRAY	RAB4CQ470J
R	149 (B,24,21)		RS1/16SS470J
R	150 (B,23,21)		RS1/16SS470J
R	153 (B,11,19)		RS1/16SS470J
R	154 (B,10,23)		RS1/16SS472J
R	159 (A,26,47)		RS1/16SS220J
R	160 (A,41,56)		RS1/16SS0R0J
R	163 (A,16,41)		RS1/16SS220J
R	164 (B,7,23)		RS1/16SS0R0J
R	201 (A,116,48)	RESISTOR ARRAY	RAB4CQ101J
R	202 (B,116,42)	RESISTOR ARRAY	RAB4CQ103J
R	207 (B,114,42)		RS1/16SS473J
R	209 (B,109,33)		RS1/16SS472J
R	212 (B,108,35)		RS1/16SS473J
R	214 (A,102,36)		RS1/16SS101J
R	215 (B,102,34)		RS1/16SS101J
R	216 (A,102,34)		RS1/16SS101J
R	217 (B,102,33)		RS1/16SS101J
R	218 (B,102,31)		RS1/16SS101J
R	219 (B,99,31)		RS1/16SS472J
R	220 (A,110,27)		RS1/16SS101J
R	222 (B,108,33)		RS1/16SS101J
R	226 (B,116,33)		RS1/16SS473J
R	228 (B,109,30)		RS1/16SS472J
R	233 (B,124,32)		RS1/16SS470J
R	237 (B,121,40)		RS1/16SS470J
R	238 (A,124,43)	RESISTOR ARRAY	RAB4CQ470J

Mark	No.	Description	Part No.
R	244 (A,121,49)		RS1/16SS470J
R	246 (A,123,46)		RS1/16SS470J
R	248 (A,119,27)		RS1/16SS470J
R	250 (A,119,28)		RS1/16SS470J
R	261 (B,121,31)		RS1/16SS222J
R	291 (A,148,45)		RS1/16SS220J
R	292 (A,146,45)		RS1/16SS220J
R	293 (B,139,41)		RS1/16SS220J
R	294 (B,139,43)		RS1/16SS220J
R	296 (A,151,45)		RS1/16SS220J
R	297 (A,149,45)		RS1/16SS220J
R	302 (B,193,44)	RESISTOR ARRAY	RAB4CQ104J
R	307 (B,195,38)		RS1/16SS0R0J
R	311 (A,184,38)		RS1/16SS101J
R	312 (A,185,34)		RS1/16SS470J
R	313 (A,185,32)		RS1/16SS101J
R	314 (B,186,34)		RS1/16SS101J
R	315 (B,186,33)		RS1/16SS101J
R	317 (A,189,28)		RS1/16SS470J
R	318 (A,191,30)		RS1/16SS470J
R	320 (A,199,33)		RS1/16S0R0J
R	321 (A,196,30)	RESISTOR ARRAY	RAB4CQ101J
R	324 (B,193,32)		RS1/16SS103J
R	325 (A,200,37)	CHIP RESISTOR	RS1/16SS1802F
R	351 (B,200,32)		RS1/16SS750J
R	352 (B,200,38)		RS1/16SS750J
R	361 (B,195,36)		RS1/16SS100J
R	362 (B,198,38)		RS1/16SS100J
R	401 (A,157,34)		RS1/16SS470J
R	402 (A,162,36)		RS1/16SS470J
R	404 (A,153,35)	RESISTOR ARRAY	RAB4CQ101J
R	407 (B,152,32)		RS1/16S4R7J
R	408 (A,146,19)		RS1/16SS101J
R	409 (A,148,19)		RS1/16SS101J
R	410 (A,150,19)		RS1/16SS101J
R	411 (A,152,19)		RS1/16SS101J
R	412 (A,154,19)		RS1/16SS101J
R	413 (A,156,19)		RS1/16SS101J
R	414 (A,158,19)		RS1/16SS101J
R	415 (A,160,19)		RS1/16SS101J
R	481 (A,180,29)		RS1/16SS101J
R	482 (A,176,34)		RS1/16SS470J
R	483 (A,175,34)		RS1/16SS470J
R	503 (A,201,49)		RS1/16SS0R0J
R	551 (A,100,25)		RS1/16SS105J
R	552 (A,97,25)		RS1/16SS471J
R	554 (A,104,22)		RS1/16SS220J
R	555 (A,92,18)		RS1/16SS220J
R	557 (B,108,23)		RS1/16SS220J
R	613 (A,169,45)		RS1/16SS0R0J
R	614 (A,168,42)		RS1/16SS0R0J
R	615 (A,156,39)		RS1/16SS0R0J
R	616 (A,158,41)		RS1/16SS0R0J
R	651 (A,166,39)	RESISTOR ARRAY	RAB4CQ101J
R	654 (A,167,49)	RESISTOR ARRAY	RAB4CQ470J
R	657 (A,157,46)	RESISTOR ARRAY	RAB4CQ470J
R	660 (A,157,43)	RESISTOR ARRAY	RAB4CQ101J
R	668 (A,164,40)		RS1/16SS104J
R	701 (A,168,54)		RS1/16SS470J
R	702 (A,173,58)		RS1/16SS470J
R	703 (A,173,59)		RS1/16SS470J
R	704 (A,178,60)	RESISTOR ARRAY	RAB4CQ470J
R	711 (A,152,63)		RS1/16SS101J
R	712 (A,152,62)		RS1/16SS101J
R	713 (A,149,61)		RS1/16SS101J
R	714 (A,149,59)		RS1/16SS101J
R	715 (A,154,58)	RESISTOR ARRAY	RAB4CQ221J
R	719 (A,154,56)		RS1/16SS221J
R	720 (A,154,55)		RS1/16SS221J
R	751 (B,154,56)		RS1/16SS470J
R	752 (B,186,59)		RS1/16SS103J
R	753 (B,184,59)		RS1/16SS472J
R	754 (B,182,59)		RS1/16SS472J
R	755 (B,173,61)		RS1/16SS101J
R	756 (B,186,60)		RS1/16SS101J
R	757 (B,184,60)		RS1/16SS101J
R	758 (B,181,60)		RS1/16SS101J
R	759 (B,173,58)	RESISTOR ARRAY	RAB4CQ101J
R	761 (B,187,57)		RS1/16SS0R0J
R	763 (B,175,55)		RS1/16SS101J
R	764 (B,173,55)		RS1/16SS101J
R	801 (A,154,50)		RS1/16SS104J
R	802 (B,154,57)		RS1/16SS0R0J
R	803 (A,175,59)		RS1/16SS0R0J
R	805 (A,102,63)	RESISTOR ARRAY	RAB4CQ104J
R	806 (A,102,60)	RESISTOR ARRAY	RAB4CQ104J
R	810 (A,106,65)	RESISTOR ARRAY	RAB4CQ104J
R	901 (A,204,21)		RS1/16SS104J
R	903 (A,47,13)	CHIP RESISTOR	RS1/16SS3003F
R	904 (A,46,16)		RS1/16SS9101F
R	905 (A,46,14)	CHIP RESISTOR	RS1/16SS1802F
R	907 (A,205,26)	CHIP RESISTOR	RS1/16SS1202F
R	908 (A,205,29)		RS1/16SS2002F
R	909 (B,196,29)	CHIP RESISTOR	RS1/16SS1202F
R	910 (B,193,30)	CHIP RESISTOR	RS1/16SS1000F
R	929 (A,186,19)		RS1/16SS104J
R	930 (A,187,19)		RS1/16SS104J
R	931 (A,202,21)		RS1/16SS104J
R	951 (A,109,18)	RESISTOR ARRAY	RAB4CQ104J
R	955 (A,86,22)		RS1/16SS472J
R	962 (A,83,15)		RS1/16SS104J
R	977 (A,91,21)		RS1/16SS0R0J
R	978 (A,87,21)		RS1/16SS0R0J
R	979 (B,93,33)	RESISTOR ARRAY	RAB4CQ0R0J
R	980 (B,88,37)		RS1/16SS0R0J
R	981 (B,82,54)	RESISTOR ARRAY	RAB4CQ0R0J
R	982 (B,76,57)	RESISTOR ARRAY	RAB4CQ0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	101 (A,73,33)		CEVW101M16
C	102 (A,45,30)	CHIP OS CAPACITOR	ACH1429
C	103 (B,53,40)		CKSSYB104K10
C	104 (B,53,43)		CKSSYB104K10
C	105 (B,57,48)		CKSSYB104K10
C	106 (B,63,45)		CKSSYB104K10
C	107 (B,62,41)		CKSSYB104K10
C	108 (B,59,38)		CKSSYB104K10
C	109 (A,49,42)		CKSSYB104K10
C	110 (A,50,42)		CKSSYB471K50

Mark	No.	Description	Part No.
C	111 (B,53,45)		CKSSYB471K50
C	112 (B,52,45)		CKSSYB104K10
C	113 (B,53,48)		CKSSYB471K50
C	114 (B,54,47)		CKSSYB104K10
C	115 (B,59,47)		CKSSYB471K50
C	116 (B,59,48)		CKSSYB104K10
C	117 (B,61,47)		CKSSYB471K50
C	118 (B,61,48)		CKSSYB104K10
C	119 (B,62,43)		CKSSYB471K50
C	120 (B,63,43)		CKSSYB104K10
C	121 (B,62,39)		CKSSYB471K50
C	122 (B,64,39)		CKSSYB104K10
C	123 (B,61,37)		CKSSYB471K50
C	124 (B,61,38)		CKSSYB104K10
C	125 (B,56,38)		CKSSYB471K50
C	126 (B,57,37)		CKSSYB104K10
C	127 (B,55,38)		CKSSYB471K50
C	128 (B,54,38)		CKSSYB104K10
C	129 (A,47,47)		CKSSYB103K16
C	139 (A,47,42)		CKSRYB105K16
C	174 (A,8,48)		CEVW101M16
C	176 (A,18,52)		CKSSYB104K10
C	178 (B,11,21)		CKSSYB104K10
C	180 (B,28,16)		CKSSYB104K10
C	182 (A,11,42)		CKSSYB104K10
C	184 (A,42,52)		CKSSYB104K10
C	186 (A,25,52)		CKSSYB104K10
C	188 (B,5,20)		CKSSYB104K10
C	202 (A,119,49)		CKSSYB104K10
C	203 (A,113,47)		CKSSYB471K50
C	204 (A,113,48)		CKSSYB104K10
C	206 (A,108,48)		CKSSYB104K10
C	208 (A,102,41)		CKSSYB104K10
C	209 (A,103,39)		CKSSYB471K50
C	210 (A,102,39)		CKSSYB104K10
C	211 (A,103,31)		CKSSYB471K50
C	212 (A,103,30)		CKSSYB104K10
C	216 (A,106,28)		CKSSYB471K50
C	217 (A,106,27)		CKSSYB104K10
C	218 (A,109,28)		CKSSYB471K50
C	219 (A,109,27)		CKSSYB104K10
C	220 (B,111,33)		CKSSYB103K16
C	221 (A,114,28)		CKSSYB471K50
C	222 (A,114,26)		CKSSYB104K10
C	224 (A,124,34)		CKSSYB104K10
C	225 (A,123,37)		CKSSYB471K50
C	226 (A,124,37)		CKSSYB104K10
C	228 (A,124,40)		CKSSYB104K10
C	229 (A,132,44)	CHIP ELECT.CAPACITOR	CEVW101M4
C	230 (A,114,21)		CEVW101M16
C	291 (B,145,38)		CCSRCH471J50
C	292 (B,145,37)		CKSSYB104K10
C	304 (A,185,41)		CKSRYB104K16
C	305 (A,180,39)		CEVW470M6R3
C	306 (A,184,36)		CCSRCH471J50
C	307 (A,185,36)		CKSSYB104K10
C	312 (B,192,32)		CKSSYB104K10
C	315 (B,194,32)		CKSSYB102K50
C	316 (A,201,28)		CEVW470M6R3
C	317 (A,200,35)		CKSSYB104K10

Mark	No.	Description	Part No.
C	318 (A,199,35)		CCSRCH471J50
C	319 (A,199,38)		CKSRYB474K10
C	353 (B,197,35)		CKSSYB103K16
C	354 (B,199,38)		CKSSYB103K16
C	401 (A,148,30)		CKSSYB471K50
C	402 (A,147,30)		CKSRYB104K16
C	403 (A,147,38)		CEVW101M16
C	404 (A,155,34)		CKSSYB104K10
C	407 (A,146,18)		CKSSYB471K50
C	408 (A,148,18)		CKSSYB471K50
C	409 (A,150,18)		CKSSYB471K50
C	410 (A,152,18)		CKSSYB471K50
C	411 (A,154,18)		CKSSYB471K50
C	412 (A,156,18)		CKSSYB471K50
C	413 (A,158,18)		CKSSYB471K50
C	414 (A,160,18)		CKSSYB471K50
C	415 (A,161,24)		CCSRCH471J50
C	416 (A,163,24)		CKSRYB104K16
C	417 (A,162,29)		CEVW101M16
C	418 (A,144,23)		CEVW470M6R3
C	420 (A,147,28)		CKSSYB104K10
C	481 (A,180,28)		CKSSYB104K10
C	482 (A,173,23)		CKSSYB104K10
C	483 (A,169,24)		CKSQYB225K10
C	485 (A,176,23)		CCSRCH471J50
C	486 (A,176,21)		CKSRYB104K16
C	487 (A,169,30)		CEVW101M16
C	489 (A,178,22)		CKSSYB104K10
C	490 (A,183,24)		CEVW100M16
C	552 (A,106,18)		CKSSYB104K10
C	553 (A,106,20)		CCSRCH471J50
C	554 (A,102,25)		CCSSCH8R0D50
C	555 (A,95,25)		CCSSCH8R0D50
C	556 (A,92,14)		CCSRCH471J50
C	557 (A,92,13)		CKSSYB104K10
C	652 (A,162,39)		CKSSYB104K10
C	701 (A,145,65)		CEVW100M16
C	703 (A,173,61)		CKSSYB104K10
C	705 (A,160,65)		CKSSYB104K10
C	707 (A,159,54)		CKSSYB104K10
C	708 (A,155,61)		CKSSYB104K10
C	751 (A,184,58)		CEVW100M16
C	753 (B,154,61)		CKSSYB104K10
C	755 (B,165,64)		CKSSYB104K10
C	757 (B,168,54)		CKSSYB104K10
C	758 (B,172,61)		CKSSYB104K10
C	801 (A,137,65)		CKSRYB104K16
C	902 (A,51,23)		DCH1201
C	903 (A,51,17)		DCH1201
C	904 (A,49,13)		CKSSYB102K50
C	905 (A,209,33)		CKSRYB105K16
C	906 (A,206,33)		CKSRYB105K16
C	907 (B,187,26)		CKSRYB105K16
C	908 (B,188,28)		CKSRYB105K16
C	918 (B,181,24)		CKSSYB103K16
C	921 (B,120,36)		CKSSYB471K50
C	922 (B,122,36)		CKSSYB103K16
C	923 (B,179,23)		CKSSYB104K10
C	924 (B,179,22)		CKSSYB471K50

H COMPOSITE ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	1001(A,74,199)	LOGIC IC	TC74HC4051AFT
IC	1003(A,92,208)	IC	TC74HC4053AFT
IC	1004(A,112,209)	VIDEO AMP IC	LA7109
IC	1005(B,56,197)	PORT EXPANDER	BU4094BCF
IC	1006(A,36,184)	CHARACTER GENERATOR	PDC162A
IC	1101(A,159,189)	OP-AMP IC	UPC4570G2
Q	1002(A,171,176)	TRANSISTOR	2SC4081
Q	1003(B,27,193)	TRANSISTOR	2SC4081
Q	1004(B,179,188)	TRANSISTOR	2SC4081
Q	1102(A,173,207)	DIGITAL TR(SC-70)	RT1N431M
D	1001(B,88,192)	DIODE	DAN202U
D	1002(B,84,192)	DIODE	DAN202U
D	1003(B,132,179)	DIODE	1SS355
D	1004(B,123,176)	DIODE	1SS355
D	1005(B,57,180)	DIODE	DAP202U
D	1101(A,163,208)	DIODE	UDZS6R2(B)
D	1102(A,157,208)	DIODE	UDZS6R2(B)
D	1103(A,163,210)	DIODE	UDZS6R2(B)
D	1104(A,158,209)	DIODE	UDZS6R2(B)
D	1105(A,172,201)	DIODE	1SS355
D	1108(B,178,206)	DIODE	UDZS5R1(B)
D	1109(B,176,206)	DIODE	UDZS5R1(B)
D	1110(B,169,207)	DIODE	UDZS5R1(B)
L	1002(B,181,194)	CHIP COIL	LCTAW120J2520
L	1003(A,33,200)	AXIAL INDUCTOR	LAU330J
JA	1006(A,57,233)	PIN JACK(1P)	AKB7175
X	1001(A,44,196)	CRYSTAL RESONATOR	ASS7080
CN	1001(A,184,173)	11P SOCKET	XKP3076
CN	1002(A,77,178)	21P SOCKET	XKP3081
CN	1003(A,184,198)	13P SOCKET	XKP3077
CN	1004(A,161,233)	20P SOCKET	AKP7202
	1001(A,134,233)	PIN JACK(2P)	AKB7176
	1002(A,106,233)	PIN JACK(2P)	AKB7176
	1003(A,78,233)	PIN JACK(2P)	AKB7176

RESISTORS

Mark	No.	Description	Part No.
R	1001(B,142,224)		RS1/16S750J
R	1002(B,125,221)		RS1/16S750J
R	1003(B,97,220)		RS1/16S750J
R	1004(B,69,220)		RS1/16S750J
R	1007(B,81,220)		RS1/16S750J
R	1009(B,108,220)		RS1/16S750J
R	1011(B,54,219)		RS1/16S750J
R	1014(A,169,170)		RS1/16S102J
R	1017(B,105,201)		RS1/16S103J
R	1018(B,114,201)		RS1/16S103J
R	1020(B,131,201)		RS1/16S103J
R	1021(A,108,203)		RS1/16S103J
R	1022(A,117,203)		RS1/16S103J
R	1023(B,133,204)		RS1/16S473J
R	1024(B,135,205)		RS1/16S473J
R	1025(B,66,204)		RS1/16S473J
R	1026(B,63,204)		RS1/16S473J
R	1027(B,64,189)		RS1/16S561J
R	1030(B,85,196)		RS1/16S473J
R	1031(B,71,192)		RS1/16S473J
R	1032(B,69,192)		RS1/16S473J
R	1033(B,54,189)		RS1/16S473J
R	1034(A,42,176)		RS1/16S102J
R	1035(B,28,186)		RS1/16S512J
R	1036(B,30,186)		RS1/16S392J
R	1037(B,38,188)		RS1/16S102J
R	1039(A,24,192)		RS1/16S331J
R	1040(A,25,196)		RS1/16S331J
R	1041(A,26,196)		RS1/16S331J
R	1043(B,175,192)		RS1/16S561J
R	1046(B,179,190)		RS1/16S102J
R	1049(A,168,175)		RS1/16S103J
R	1051(A,168,176)		RS1/16S0R0J
R	1054(B,90,209)		RS1/16S473J
R	1101(A,162,205)		RS1/16S104J
R	1102(A,158,206)		RS1/16S104J
R	1103(A,164,205)		RS1/16S331J
R	1104(A,155,205)		RS1/16S331J
R	1105(B,163,199)		RS1/16S104J
R	1106(B,156,199)		RS1/16S104J
R	1107(B,163,193)		RS1/16S472J
R	1108(B,157,193)		RS1/16S472J
R	1109(B,168,195)		RS1/16S472J
R	1110(B,150,195)		RS1/16S472J
R	1111(B,163,190)		RS1/16S103J
R	1112(B,155,189)		RS1/16S103J
R	1113(A,165,188)		RS1/16S103J
R	1114(A,154,189)		RS1/16S103J
R	1115(B,162,183)		RS1/16S101J
R	1116(B,156,183)		RS1/16S101J
R	1117(B,169,185)		RS1/16S104J
R	1118(B,167,182)		RS1/16S104J
R	1122(A,170,205)		RS1/16S514J
R	1124(A,170,208)		RS1/16S393J
R	1127(B,174,212)		RS1/16S0R0J
R	1131(A,154,212)		RS1/16S750J
R	1132(A,150,208)		RS1/16S0R0J
R	1134(A,152,213)		RS1/16S0R0J
R	1167(A,111,203)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	1001(A,75,202)		CKSRYB104K16
C	1002(A,73,204)		CKSRYB104K16
C	1005(A,91,212)		CKSRYB104K16
C	1006(A,94,212)		CKSRYB104K16
C	1008(B,65,202)		CKSRYB104K16
C	1009(B,68,189)		CCSRCH561J50
C	1011(A,169,173)		CKSRYB103K50
C	1012(A,169,172)		CKSRYB103K50
C	1014(A,88,202)		CEAT101M10
C	1016(A,116,200)		CEAT101M10
C	1018(A,134,200)		CEAT101M10
C	1019(B,116,211)		CKSRYB104K16
C	1020(A,120,208)		CKSRYB104K16
C	1021(A,123,213)		CEAT101M10
C	1022(A,129,214)		CEAT101M10
C	1024(B,84,225)		CCSRCH181J50
C	1025(B,113,224)		CCSRCH181J50
C	1026(B,56,224)		CCSRCH181J50
C	1027(A,45,180)		CEAT101M10
C	1028(A,45,187)		CEAT101M10

Mark	No.	Description	Part No.
C	1029(A,45,177)		CKSRYB473K25
C	1030(A,27,185)		CKSRYB473K25
C	1031(A,39,176)		CCSRCH101J50
C	1032(A,35,176)		CKSRYB122K50
C	1033(A,31,176)		CKSRYB122K50
C	1035(B,34,186)		CKSRYB103K50
C	1036(B,47,191)		CCSRCH5R0C50
C	1037(B,45,191)		CCSRCH5R0C50
C	1038(B,33,193)		CCSRCH240J50
C	1039(B,32,197)		CCSRCH240J50
C	1040(A,29,194)		CCSRCH101J50
C	1041(A,28,193)		CCSRCH101J50
C	1042(A,26,192)		CCSRCH101J50
C	1045(B,184,192)		CCSRCH330J50
C	1046(B,178,193)		CCSRCH120J50
C	1047(B,180,192)		CCSRCJ3R0C50
C	1093(B,111,224)		CKSRYB103K50
C	1095(B,82,225)		CKSRYB103K50
C	1096(B,79,225)		CKSRYB103K50
C	1097(B,54,224)		CKSRYB103K50
C	1098(B,43,224)		CKSRYB103K50
C	1101(A,162,206)		CCSRCH101J50
C	1102(A,158,205)		CCSRCH101J50
C	1103(A,160,200)		CCSRCH101J50
C	1104(A,158,200)		CCSRCH101J50
C	1105(A,163,201)		CEAT100M50
C	1106(A,155,201)		CEAT100M50
C	1107(A,168,197)		CEAT100M50
C	1108(A,150,197)		CEAT100M50
C	1113(A,157,193)		CKSRYB103K50
C	1114(A,162,193)		CKSRYB103K50
C	1115(A,162,180)		CEAT100M50
C	1116(A,156,180)		CEAT100M50
C	1117(A,174,198)		CKSRYB103K50
C	1118(B,167,224)		CKSRYB103K50
C	1121(A,183,192)		CKSRYB103K50
C	1122(A,185,192)		CKSRYB103K50

I S-VIDEO ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	1201(A,115,134)	LOGIC IC	TC74HC4051AFT
IC	1202(A,103,134)	LOGIC IC	TC74HC4051AFT
IC	1203(A,111,119)	IC	TC74HC4053AFT
IC	1205(A,66,138)	VIDEO AMP IC	LA7109
IC	1206(A,149,126)	IC	NJM12904V
Q	1201(B,145,132)	TRANSISTOR	RT1N241M
Q	1203(B,135,115)	TRANSISTOR	2SC4081
Q	1204(B,135,106)	TRANSISTOR	2SC4081
Q	1205(A,148,116)	TRANSISTOR	2SC4081
Q	1206(B,155,106)	TRANSISTOR	2SC4081
D	1203(B,79,133)	DIODE	DAN202K
D	1204(A,83,129)	DIODE	DAN202K
D	1205(A,143,125)	DIODE	1SS355
D	1251(B,90,112)	DIODE	1SS355
D	1252(B,79,113)	DIODE	1SS355
D	1301(B,170,143)	DIODE	1SS355
L	1201(A,155,109)	CHIP COIL	LCTAW120J2520
L	1202(B,162,108)	CHIP COIL	LCTAW120J2520
L	1301(B,161,128)	CHIP SOLID INDUCTOR	QTL1013
CN	1201(A,175,128)	13P SOCKET	XKP3077
CN	1202(A,175,101)	15P SOCKET	XKP3078
CN	1203(A,68,108)	15P SOCKET	XKP3078
CN	1204	SOCKET	XKB3052
CN	1205(A,97,163)	SOCKET	XKB3051
CN	1206(A,125,163)	SOCKET	XKB3051
CN	1302(A,175,152)	7P FFC CONNECTOR	RKN1048

RESISTORS

Mark	No.	Description	Part No.
R	1201(B,131,152)		RS1/16S750J
R	1202(B,133,152)		RS1/16S750J
R	1203(B,117,152)		RS1/16S750J
R	1204(B,119,152)		RS1/16S750J
R	1205(B,89,152)		RS1/16S750J
R	1206(B,91,152)		RS1/16S750J
R	1207(B,61,151)		RS1/16S750J
R	1208(B,63,151)		RS1/16S750J
R	1209(B,47,148)		RS1/16S750J
R	1210(B,49,148)		RS1/16S750J
R	1211(B,103,149)		RS1/16S750J
R	1212(B,105,149)		RS1/16S750J
R	1213(B,75,149)		RS1/16S750J
R	1214(B,77,149)		RS1/16S750J
R	1218(B,147,132)		RS1/16S473J
R	1223(B,138,115)		RS1/16S102J
R	1224(B,138,105)		RS1/16S102J
R	1225(A,59,132)		RS1/16S103J
R	1226(A,63,132)		RS1/16S103J
R	1227(A,66,130)		RS1/16S103J
R	1228(A,87,131)		RS1/16S103J
R	1231(B,80,137)		RS1/16S473J
R	1232(A,71,130)		RS1/16S473J
R	1235(A,155,111)		RS1/16S561J
R	1236(B,167,108)		RS1/16S561J
R	1237(B,131,115)		RS1/16S103J
R	1238(B,132,106)		RS1/16S103J
R	1243(A,145,119)		RS1/16S102J
R	1244(B,157,104)		RS1/16S102J
R	1247(A,146,123)		RS1/16S103J
R	1248(A,144,124)		RS1/16S470J
R	1249(A,146,126)		RS1/16S274J
R	1251(B,130,115)		RS1/16S0R0J
R	1252(B,130,106)		RS1/16S0R0J
R	1257(A,151,121)		RS1/16S0R0J
R	1310(A,175,147)		RS1/16S103J
R	1627(A,72,133)		RS1/16S0R0J
R	1628(A,66,133)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	1201(B,133,148)		CKSRYB104K16
C	1202(B,119,148)		CKSRYB104K16
C	1203(B,91,148)		CKSRYB104K16
C	1204(B,63,148)		CKSRYB104K16
C	1205(B,49,151)		CCSRCH181J50
C	1206(B,47,151)		CCSRCH181J50
C	1207(B,105,152)		CCSRCH181J50
C	1208(B,103,152)		CCSRCH181J50
C	1209(B,77,152)		CCSRCH181J50

Mark	No.	Description	Part No.
C	1210(B,75,152)		CCSRCH181J50
C	1211(A,111,134)		CKSRYB104K16
C	1212(A,119,132)		CKSRYB104K16
C	1213(A,99,134)		CKSRYB104K16
C	1214(A,107,131)		CKSRYB104K16
C	1215(A,115,115)		CKSRYB104K16
C	1216(A,108,121)		CKSRYB104K16
C	1221(A,124,115)		CEAT101M10
C	1222(A,124,107)		CEAT101M10
C	1225(B,132,110)		CKSRYB103K50
C	1226(B,140,110)		CKSRYB103K50
C	1227(A,42,120)		CEAT101M10
C	1228(B,57,129)		CKSRYB104K16
C	1229(A,50,120)		CEAT101M10
C	1230(A,87,130)		CKSRYB104K16
C	1233(B,59,142)		CKSRYB104K16
C	1234(B,59,134)		CKSRYB104K16
C	1235(A,53,143)		CEAT101M10
C	1236(A,53,136)		CEAT101M10
C	1237(A,151,117)		CKSRYB103K50
C	1238(A,143,119)		CKSRYB103K50
C	1239(B,159,106)		CKSRYB103K50
C	1240(B,160,104)		CKSRYB103K50
C	1241(A,144,122)		CKSRYB104K16
C	1242(A,143,130)		CEAT100M50
C	1243(A,155,113)		CCSRCH120J50
C	1244(B,167,109)		CCSRCH120J50
C	1245(A,152,112)		CCSRCH330J50
C	1246(B,158,110)		CCSRCH330J50
C	1247(A,152,128)		CKSRYB104K16
C	1249(A,154,107)		CCSRCJ3R0C50
C	1250(B,162,111)		CCSRCJ3R0C50
C	1292(B,73,158)		CKSRYB103K50
C	1293(B,93,158)		CKSRYB103K50
C	1294(B,129,158)		CKSRYB103K50
C	1301(A,158,138)		CEAT101M16
C	1302(A,153,142)		CKSRYB103K50

J BRIDGE 2 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
CN	2901(A,21,29)	17P PLUG	XKP3068
CN	2902(A,100,29)	17P PLUG	XKP3068

K COMPONENT ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	1401(A,113,70)	MULTIPLEXER(4CH*2)	TC74LVX4052FT
IC	1402(A,124,72)	MULTIPLEXER(4CH*2)	TC74LVX4052FT
IC	1403(A,139,69)	MULTIPLEXER(2CH*3)	TC74LVX4053FT
IC	1404(B,93,70)	VIDEO IC	NJM2581M
IC	1405(A,129,50)	PORT EXPANDER IC	BU4094BCFV
⚠ Q	1401(B,87,57)	TRANSISTOR	2SC4081
⚠ Q	1402(B,71,57)	TRANSISTOR	2SA1576A
Q	1403(B,163,64)	TRANSISTOR	2SA1576A
Q	1405(B,163,69)	TRANSISTOR	2SA1576A
Q	1407(B,163,74)	TRANSISTOR	2SA1576A
Q	1415(B,156,59)	TRANSISTOR	2SC4081
Q	1416(B,162,50)	TRANSISTOR	2SC4081
Q	1417(B,167,42)	TRANSISTOR	2SC4081
Q	1501(A,62,65)	TRANSISTOR	IMX25
Q	1502(A,68,65)	TRANSISTOR	IMX25
Q	1521(A,49,65)	TRANSISTOR	IMX25
Q	1522(A,55,65)	TRANSISTOR	IMX25
Q	1541(A,36,65)	TRANSISTOR	IMX25
Q	1542(A,42,65)	TRANSISTOR	IMX25
Q	1561(A,22,65)	TRANSISTOR	IMX25
Q	1562(A,29,65)	TRANSISTOR	IMX25
D	1401(B,85,43)	DIODE	1SS355
D	1402(B,83,43)	DIODE	1SS355
L	1401(B,166,58)	CHIP COIL	LCTAW120J2520
L	1402(B,169,53)	CHIP COIL	LCTAW120J2520
L	1403(B,175,49)	CHIP COIL	LCTAW120J2520
JA	1401(A,141,94)	6P RCA PINJACK	XKB3053
JA	1402(A,99,94)	6P RCA PINJACK	XKB3053
CN	1401(A,175,56)	13P SOCKET	XKP3077
CN	1402(A,175,30)	11P SOCKET	XKP3076
CN	1403(A,68,39)	13P SOCKET	XKP3077
CN	1405(A,19,59)	17P SOCKET	XKP3079
CN	1406(A,53,41)	CONNECTOR	CKS3384
CN	1501(A,58,94)	PIN JACK(4P)	AKB7172
CN	1502(A,30,94)	PIN JACK(4P)	AKB7172
	1401(A,166,28)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	1401(B,149,85)		RS1/16S750J
R	1402(B,138,85)		RS1/16S750J
R	1403(B,124,85)		RS1/16S750J
R	1404(B,157,85)		RS1/16S750J
R	1405(B,145,85)		RS1/16S750J
R	1406(B,131,85)		RS1/16S750J
R	1407(B,115,85)		RS1/16S750J
R	1408(B,103,85)		RS1/16S750J
R	1409(B,89,85)		RS1/16S750J
R	1410(B,106,77)		RS1/16S750J
R	1411(B,94,78)		RS1/16S750J
R	1412(B,83,79)		RS1/16S750J
R	1416(B,91,61)		RS1/16S102J
R	1417(B,85,57)		RS1/16S153J
R	1418(B,75,56)		RS1/16S153J
R	1419(B,82,58)		RS1/16S333J
R	1420(B,78,58)		RS1/16S333J
R	1421(B,159,64)		RS1/16S102J
R	1422(B,159,69)		RS1/16S102J
R	1423(B,159,74)		RS1/16S102J
R	1424(B,169,59)		RS1/16S561J
R	1425(B,171,54)		RS1/16S561J
R	1426(B,173,53)		RS1/16S561J
R	1430(B,133,54)		RS1/16S473J
R	1431(B,131,54)		RS1/16S473J
R	1432(B,131,50)		RS1/16S473J
R	1433(B,134,46)		RS1/16S473J
R	1434(A,134,46)		RS1/16S0R0J
R	1436(A,123,52)		RS1/16S561J
R	1439(B,126,49)		RS1/16S473J
R	1440(B,124,49)		RS1/16S473J
R	1441(B,128,48)		RS1/16S473J
R	1442(B,128,45)		RS1/16S473J
R	1443(B,157,64)		RS1/16S154J

Mark	No.	Description	Part No.
R	1444(B,160,64)		RS1/16S124J
R	1446(B,157,69)		RS1/16S154J
R	1447(B,161,69)		RS1/16S124J
R	1449(B,157,74)		RS1/16S154J
R	1450(B,161,74)		RS1/16S124J
R	1461(B,162,60)		RS1/16S104J
R	1462(B,163,55)		RS1/16S104J
R	1463(B,166,48)		RS1/16S104J
R	1464(B,157,55)		RS1/16S102J
R	1465(B,166,52)		RS1/16S102J
R	1466(B,173,47)		RS1/16S102J
R	1501(B,62,59)		RS1/16S271J
R	1502(B,68,59)		RS1/16S271J
R	1503(B,62,65)		RS1/16S121J
R	1504(B,68,65)		RS1/16S121J
R	1505(B,62,70)		RS1/16S101J
R	1506(B,68,70)		RS1/16S101J
R	1507(B,63,86)		RS1/16S474J
R	1508(B,67,87)		RS1/16S474J
R	1509(A,62,60)		RS1/16S103J
R	1510(A,68,60)		RS1/16S103J
R	1511(A,60,69)		RS1/16S103J
R	1512(A,67,69)		RS1/16S103J
R	1521(B,49,59)		RS1/16S271J
R	1522(B,55,59)		RS1/16S271J
R	1523(B,49,65)		RS1/16S121J
R	1524(B,55,65)		RS1/16S121J
R	1525(B,49,70)		RS1/16S101J
R	1526(B,55,70)		RS1/16S101J
R	1527(B,49,86)		RS1/16S474J
R	1528(B,53,87)		RS1/16S474J
R	1529(A,49,60)		RS1/16S103J
R	1530(A,55,60)		RS1/16S103J
R	1531(A,47,69)		RS1/16S103J
R	1532(A,54,69)		RS1/16S103J
R	1541(B,36,59)		RS1/16S271J
R	1542(B,42,59)		RS1/16S271J
R	1543(B,36,65)		RS1/16S121J
R	1544(B,42,65)		RS1/16S121J
R	1545(B,36,70)		RS1/16S101J
R	1546(B,42,70)		RS1/16S101J
R	1547(B,35,86)		RS1/16S474J
R	1548(B,39,87)		RS1/16S474J
R	1549(A,36,60)		RS1/16S103J
R	1550(A,42,60)		RS1/16S103J
R	1551(A,34,69)		RS1/16S103J
R	1552(A,41,69)		RS1/16S103J
R	1561(B,23,61)		RS1/16S271J
R	1562(B,29,61)		RS1/16S271J
R	1563(B,22,65)		RS1/16S121J
R	1564(B,29,65)		RS1/16S121J
R	1565(B,22,70)		RS1/16S101J
R	1566(B,29,70)		RS1/16S101J
R	1567(B,21,86)		RS1/16S474J
R	1568(B,25,87)		RS1/16S474J
R	1569(A,23,60)		RS1/16S103J
R	1570(A,29,60)		RS1/16S103J
R	1571(A,21,69)		RS1/16S103J
R	1572(A,27,69)		RS1/16S103J
R	1573(A,65,46)		RS1/16S473J
R	1574(A,62,46)		RS1/16S471J
R	1575(A,63,44)		RS1/16S473J
R	1576(A,61,43)		RS1/16S471J
R	1581(B,151,77)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	1413(A,118,70)		CKSRYB103K50
C	1414(A,107,72)		CKSRYB103K50
C	1415(A,131,70)		CKSRYB103K50
C	1416(A,117,73)		CKSRYB103K50
C	1417(A,143,67)		CKSRYB103K50
C	1418(A,135,72)		CKSRYB103K50
C	1419(A,101,61)		CEAT101M10
C	1420(A,95,61)		CEAT101M10
C	1421(A,97,53)		CEAT101M10
C	1425(A,83,67)		CEAT101M10
C	1426(A,83,73)		CEAT101M10
C	1427(B,86,67)		CKSRYB104K16
C	1428(B,86,72)		CKSRYB104K16
C	1431(B,82,60)		CKSRYB224K10
C	1432(B,78,60)		CKSRYB224K10
C	1433(B,153,64)		CKSRYB103K50
C	1434(B,168,64)		CKSRYB103K50
C	1435(B,153,70)		CKSRYB103K50
C	1436(B,168,69)		CKSRYB103K50
C	1437(B,154,76)		CKSRYB103K50
C	1438(B,168,73)		CKSRYB103K50
C	1439(A,151,63)		CEAT100M50
C	1440(A,151,68)		CEAT100M50
C	1441(A,150,74)		CEAT100M50
C	1443(B,169,41)		CKSRYB104K16
C	1444(B,175,46)		CKSRYB104K16
C	1445(A,170,59)		CCSRCH120J50
C	1446(A,170,55)		CCSRCH120J50
C	1447(A,172,50)		CCSRCH120J50
C	1448(A,169,59)		CCSRCH330J50
C	1449(A,169,55)		CCSRCH330J50
C	1450(A,170,50)		CCSRCH330J50
C	1454(A,170,57)		CCSRCJ3R0C50
C	1455(A,170,52)		CCSRCJ3R0C50
C	1456(A,172,48)		CCSRCJ3R0C50
C	1469(A,130,54)		CKSRYB104K16
C	1470(A,128,54)		CCSRCH561J50
C	1471(A,163,58)		CEAT100M50
C	1472(A,163,53)		CEAT100M50
C	1473(A,166,46)		CEAT100M50
C	1490(B,147,85)		CKSRYB103K50
C	1491(B,133,85)		CKSRYB103K50
C	1492(B,105,85)		CKSRYB103K50
C	1493(B,91,85)		CKSRYB103K50
C	1501(B,63,84)		CCSRCH101J50
C	1502(B,67,85)		CCSRCH101J50
C	1507(B,60,70)		CCSRCH271J50
C	1508(B,66,70)		CCSRCH271J50
C	1521(B,49,84)		CCSRCH101J50
C	1522(B,53,85)		CCSRCH101J50
C	1527(B,47,70)		CCSRCH271J50
C	1528(B,53,70)		CCSRCH271J50
C	1531(A,60,78)	ELECT. CAPACITOR	CEAT470M25
C	1532(A,67,78)	ELECT. CAPACITOR	CEAT470M25

Mark	No.	Description	Part No.
C	1533(A,47,78)	ELECT. CAPACITOR	CEAT470M25
C	1541(B,35,84)		CCSRCH101J50
C	1542(B,39,85)		CCSRCH101J50
C	1547(A,54,78)	ELECT. CAPACITOR	CEAT470M25
C	1548(A,34,78)	ELECT. CAPACITOR	CEAT470M25
C	1549(A,41,78)	ELECT. CAPACITOR	CEAT470M25
C	1550(A,21,78)	ELECT. CAPACITOR	CEAT470M25
C	1551(A,27,78)	ELECT. CAPACITOR	CEAT470M25
C	1561(B,21,84)		CCSRCH101J50
C	1562(B,25,85)		CCSRCH101J50
C	1567(A,60,46)		CKSRYB472K50
C	1568(A,58,44)		CKSRYB472K50
C	1569(B,34,70)		CCSRCH271J50
C	1570(B,40,70)		CCSRCH271J50
C	1571(B,20,70)		CCSRCH271J50
C	1572(B,27,70)		CCSRCH271J50
C	1591(B,58,86)		CKSRYB103K50
C	1593(B,30,86)		CKSRYB103K50

COMPLEX ASSY (AWK8015)

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ Y	15	AWG18 BOARD IN	ADX7501
⚠ Y	14	AWG18 BOARD IN	ADX7500

L DISPLAY ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	2301(B,164,214)	DISPLAY U-COM	PE5503A
IC	2402(A,237,230)	REMOTE RECEIVER UNIT	RPM7540-H9
Q	2401(B,205,185)	TRANSISTOR	RT1N241M
Q	2404(B,251,192)	TRANSISTOR	2SA1576A
Q	2405(B,231,192)	TRANSISTOR	RT1N241M
Q	2406(B,225,220)	DIGITAL TR(SC-70)	RT1N431M
Q	2407(B,70,220)	DIGITAL TR(SC-70)	RT1N431M
Q	2408(B,65,214)	DIGITAL TR(SC-70)	RT1N431M
Q	2409(B,157,190)	DIGITAL TR(SC-70)	RT1N431M
D	2404(B,238,190)	DIODE	1SS355
D	2405(B,254,195)	DIODE	1SS355
D	2406(B,252,209)	DIODE	DAN202U
D	2408(A,237,220)	LED(RED)	SLI-343URW(RST)
D	2410(A,76,218)	LED(ORANGE)	SLI-343DCW(STU)
D	2412(A,58,214)	LED(RED)	SLI-343URW(RST)
D	2414(A,157,197)	LED(BLUE)	SLR343BC4T(JKLM)
D	2416(B,53,227)	DIODE	1SS355
L	2401(A,248,205)	RADIAL INDUCTOR	LFCA2R2J
V	2301(A,218,237)	FL TUBE DISPLAY	AAV7113
X	2301(A,179,197)	CERAMIC RESONATOR	VSS1142
CN	2301(A,269,204)	CONNECTOR	CKS3394
	2303(A,267,196)	CABLE HOLDER(4P)	51063-0405
	2302(A,48,221)	17P CABLE HOLDER	51048-1700
	2301(A,157,201)	FL HOLDER(FE)	VNF1096

RESISTORS

Mark	No.	Description	Part No.
R	2301(B,104,240)		RS1/16S104J
R	2302(B,106,240)		RS1/16S104J
R	2303(B,108,240)		RS1/16S104J
R	2304(B,110,240)		RS1/16S104J
R	2305(B,112,240)		RS1/16S104J
R	2306(B,114,240)		RS1/16S104J
R	2307(B,116,240)		RS1/16S104J
R	2308(B,118,240)		RS1/16S104J
R	2309(B,120,240)		RS1/16S104J
R	2310(B,122,240)		RS1/16S104J
R	2311(B,124,240)		RS1/16S104J
R	2312(B,126,240)		RS1/16S104J
R	2313(B,128,240)		RS1/16S104J
R	2314(B,130,240)		RS1/16S104J
R	2315(B,132,240)		RS1/16S104J
R	2316(B,134,240)		RS1/16S104J
R	2317(B,136,240)		RS1/16S104J
R	2318(B,138,240)		RS1/16S104J
R	2319(B,140,240)		RS1/16S104J
R	2320(B,142,240)		RS1/16S104J
R	2321(B,144,240)		RS1/16S104J
R	2322(B,146,240)		RS1/16S104J
R	2323(B,148,240)		RS1/16S104J
R	2324(B,150,240)		RS1/16S104J
R	2325(B,152,240)		RS1/16S104J
R	2326(B,154,240)		RS1/16S104J
R	2327(B,156,240)		RS1/16S104J
R	2328(B,158,240)		RS1/16S104J
R	2329(B,160,240)		RS1/16S104J
R	2330(B,162,240)		RS1/16S104J
R	2331(B,164,240)		RS1/16S104J
R	2332(B,166,240)		RS1/16S104J
R	2333(B,168,240)		RS1/16S104J
R	2334(B,170,240)		RS1/16S104J
R	2335(B,172,240)		RS1/16S104J
R	2336(B,174,240)		RS1/16S104J
R	2337(B,176,240)		RS1/16S104J
R	2338(B,180,240)		RS1/16S473J
R	2339(B,182,240)		RS1/16S473J
R	2340(B,184,240)		RS1/16S473J
R	2341(B,186,240)		RS1/16S473J
R	2342(B,188,240)		RS1/16S473J
R	2343(B,190,240)		RS1/16S473J
R	2344(B,192,240)		RS1/16S473J
R	2345(B,194,240)		RS1/16S473J
R	2346(B,196,240)		RS1/16S473J
R	2347(B,198,240)		RS1/16S473J
R	2348(B,200,240)		RS1/16S473J
R	2349(B,202,240)		RS1/16S473J
R	2350(B,204,240)		RS1/16S473J
R	2351(B,206,240)		RS1/16S473J
R	2352(B,208,240)		RS1/16S473J
R	2353(B,210,240)		RS1/16S473J
R	2354(B,198,200)		RS1/16S473J
R	2355(B,206,191)		RS1/16S473J
R	2356(B,190,207)		RS1/16S473J
R	2357(B,193,202)		RS1/16S473J
R	2358(B,181,201)		RS1/16S105J
R	2359(B,176,202)		RS1/16S104J
R	2361(B,172,197)		RS1/16S221J
R	2362(B,170,194)		RS1/16S221J
R	2363(B,169,194)		RS1/16S221J
R	2364(B,167,194)		RS1/16S221J
R	2366(B,162,198)		RS1/16S104J
R	2368(B,126,199)		RS1/16S473J
R	2369(B,131,208)		RS1/16S474J

Mark	No.	Description	Part No.
R	2370(B,114,207)		RS1/16S221J
R	2371(B,136,208)		RS1/16S104J
R	2372(B,135,208)		RS1/16S221J
R	2373(B,133,208)		RS1/16S101J
R	2374(B,134,212)		RS1/16S221J
R	2375(B,129,208)		RS1/16S104J
R	2377(B,135,204)		RS1/16S474J
R	2378(B,133,204)		RS1/16S104J
R	2401(B,262,227)		RS1/16S221J
R	2402(B,260,227)		RS1/16S0R0J
R	2403(B,258,225)		RS1/16S0R0J
R	2404(B,256,224)		RS1/16S0R0J
R	2405(B,254,223)		RS1/16S0R0J
R	2406(B,201,185)		RS1/16S473J
R	2411(B,247,191)		RS1/16S0R0J
R	2412(B,249,192)		RS1/16S104J
R	2413(B,240,191)		RS1/16S472J
R	2414(B,237,196)		RS1/16S0R0J
R	2415(B,257,192)		RS1/16S104J
R	2416(B,251,195)		RS1/16S103J
R	2417(B,239,196)		RS1/16S102J
R	2419(B,232,240)		RS1/16S101J
R	2420(B,233,220)		RS1/16S331J
R	2421(B,72,225)		RS1/16S331J
R	2422(B,64,219)		RS1/16S331J
R	2423(B,150,192)		RS1/16S221J
R	2424(B,135,193)		RS1/16S472J

CAPACITORS

Mark	No.	Description	Part No.
C	2303(B,221,238)		CKSRYB471K50
C	2304(A,230,236)	ELECT. CAPACITOR	CEAT101M35
C	2305(B,178,231)		CKSRYB471K50
C	2306(B,180,231)		CKSRYB471K50
C	2307(B,182,231)		CKSRYB471K50
C	2308(B,183,231)		CKSRYB471K50
C	2309(B,187,231)		CKSRYB471K50
C	2310(B,189,231)		CKSRYB471K50
C	2311(B,190,231)		CKSRYB471K50
C	2312(B,192,231)		CKSRYB471K50
C	2313(B,196,231)		CKSRYB471K50
C	2314(B,197,231)		CKSRYB471K50
C	2315(B,199,231)		CKSRYB471K50
C	2316(B,201,231)		CKSRYB471K50
C	2317(B,204,231)		CKSRYB471K50
C	2318(B,206,231)		CKSRYB471K50
C	2319(B,208,231)		CKSRYB471K50
C	2320(B,209,231)		CKSRYB471K50
C	2351(B,180,215)		CKSRYB103K50
C	2353(B,185,207)		CKSRYB104K25
C	2354(B,175,202)		CKSRYB104K25
C	2359(B,142,204)		CKSRYB103K50
C	2360(A,87,231)	ELECT. CAPACITOR	CEJQ470M50
C	2361(B,161,230)		CKSRYB103K50
C	2362(B,160,230)		CKSRYB103K50
C	2403(B,247,195)		CKSRYB103K50
C	2404(B,237,236)		CKSRYB103K50
C	2405(A,247,235)		CEJQ101M6R3
C	2406(B,245,209)		CKSRYB103K50
C	2407(A,229,210)		CEJQ221M6R3

M VOLUME ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
J	2451	JUMPER WIRE	D15A04-100-2651
S	2451(A,289,207)	SWITCH	VSG1024
S	2452(A,304,207)	SWITCH	VSG1024
S	2453(A,314,207)	SWITCH	VSG1024
S	2454(A,302,174)	ROTARY ENCODER	ASX7048
	2451(A,278,202)	CABLE HOLDER(4P)	51063-0405

RESISTORS

Mark	No.	Description	Part No.
R	2451(B,296,206)		RS1/16S681J
R	2452(B,311,206)		RS1/16S821J

CAPACITORS

Mark	No.	Description	Part No.
C	2451(B,281,208)		CKSRYB102K50
C	2452(B,304,186)		CKSRYB103K50
C	2453(B,299,186)		CKSRYB103K50

N MULTI JOG ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	2501(B,157,111)	CMOS IC	TC4094BF
Q	2501(B,162,146)	DIGITAL TR(SC-70)	RT1N431M
Q	2502(B,174,146)	DIGITAL TR(SC-70)	RT1N431M
Q	2503(B,195,146)	DIGITAL TR(SC-70)	RT1N431M
Q	2504(B,217,146)	DIGITAL TR(SC-70)	RT1N431M
Q	2505(B,237,147)	DIGITAL TR(SC-70)	RT1N431M
Q	2506(B,259,146)	DIGITAL TR(SC-70)	RT1N431M
Q	2507(B,280,146)	DIGITAL TR(SC-70)	RT1N431M
Q	2508(B,314,140)	DIGITAL TR(SC-70)	RT1N431M
Q	2509(B,131,147)	DIGITAL TR(SC-70)	RT1N431M
Q	2510(B,22,184)	DIGITAL TR(SC-70)	RT1N431M
Q	2511(B,121,147)	DIGITAL TR(SC-70)	RT1N431M
Q	2512(B,87,146)	DIGITAL TR(SC-70)	RT1N431M
D	2502(A,155,147)	LED(ORANGE)	SLR-343DC(NPQ)
D	2504(A,177,147)	LED(ORANGE)	SLR-343DC(NPQ)
D	2506(A,198,147)	LED(ORANGE)	SLR-343DC(NPQ)
D	2508(A,220,147)	LED(ORANGE)	SLR-343DC(NPQ)
D	2510(A,241,147)	LED(ORANGE)	SLR-343DC(NPQ)
D	2512(A,263,147)	LED(ORANGE)	SLR-343DC(NPQ)
D	2514(A,284,147)	LED(ORANGE)	SLR-343DC(NPQ)
D	2516(A,306,147)	LED(ORANGE)	SLR-343DC(NPQ)
D	2518(A,134,147)	LED(ORANGE)	SLR-343DC(NPQ)
D	2520(A,16,186)	LED(BLUE)	SLR343BC4T(JKLM)
D	2522(A,112,147)	LED(ORANGE)	SLR-343DC(NPQ)
D	2524(A,91,147)	LED(ORANGE)	SLR-343DC(NPQ)
J	2501	JUMPER WIRE	D20PDD1715E
S	2501(A,36,119)	ROTARY ENCODER	ASX7031
S	2551(A,154,141)	SWITCH	VSG1024
S	2552(A,181,141)	SWITCH	VSG1024
S	2553(A,202,141)	SWITCH	VSG1024
S	2554(A,224,141)	SWITCH	VSG1024
S	2555(A,245,141)	SWITCH	VSG1024
S	2556(A,267,141)	SWITCH	VSG1024
S	2557(A,288,141)	SWITCH	VSG1024
S	2558(A,310,141)	SWITCH	VSG1024
S	2561(A,74,117)	SWITCH	VSG1024
S	2562(A,106,91)	SWITCH	VSG1024
S	2563(A,120,91)	SWITCH	VSG1024

Mark	No.	Description	Part No.
S	2564(A,135,91)	SWITCH	VSG1024
S	2565(A,150,91)	SWITCH	VSG1024
S	2566(A,165,91)	SWITCH	VSG1024
S	2567(A,179,91)	SWITCH	VSG1024
S	2571(A,15,179)	SWITCH	VSG1024
S	2572(A,18,142)	SWITCH	VSG1024
S	2573(A,33,142)	SWITCH	VSG1024
S	2574(A,48,142)	SWITCH	VSG1024
S	2575(A,90,141)	SWITCH	VSG1024
S	2576(A,116,141)	SWITCH	VSG1024
S	2577(A,138,141)	SWITCH	VSG1024
	2501(A,41,205)	17P CABLE HOLDER	51048-1700

RESISTORS

Mark	No.	Description	Part No.
R	2501(B,151,152)		RS1/16S181J
R	2502(B,184,152)		RS1/16S181J
R	2503(B,194,152)		RS1/16S181J
R	2504(B,216,152)		RS1/16S181J
R	2505(B,237,152)		RS1/16S181J
R	2506(B,259,152)		RS1/16S181J
R	2507(B,280,152)		RS1/16S181J
R	2508(B,302,152)		RS1/16S181J
R	2509(B,142,152)		RS1/16S181J
R	2510(B,9,186)		RS1/16S391J
R	2511(B,119,152)		RS1/16S181J
R	2512(B,87,151)		RS1/16S181J
R	2513(B,160,103)		RS1/16S0R0J
R	2551(B,149,141)		RS1/16S472J
R	2552(B,173,141)		RS1/16S681J
R	2553(B,194,141)		RS1/16S821J
R	2554(B,216,141)		RS1/16S122J
R	2555(B,237,141)		RS1/16S162J
R	2556(B,258,141)		RS1/16S272J
R	2557(B,280,141)		RS1/16S512J
R	2558(B,301,142)		RS1/16S133J
R	2561(B,77,113)		RS1/16S472J
R	2562(B,106,98)		RS1/16S681J
R	2563(B,117,90)		RS1/16S821J
R	2564(B,132,90)		RS1/16S122J
R	2565(B,145,90)		RS1/16S162J
R	2566(B,160,90)		RS1/16S272J
R	2567(B,175,90)		RS1/16S512J
R	2571(B,12,181)		RS1/16S472J
R	2572(B,18,146)		RS1/16S681J
R	2573(B,30,142)		RS1/16S821J
R	2574(B,45,142)		RS1/16S122J
R	2575(B,87,141)		RS1/16S162J
R	2576(B,106,143)		RS1/16S272J
R	2577(B,130,141)		RS1/16S512J
R	2580(B,145,116)		RS1/16S561J

CAPACITORS

Mark	No.	Description	Part No.
C	2501(B,148,108)		CKSRYB103K50
C	2502(B,36,129)		CKSRYB103K50
C	2503(B,33,129)		CKSRYB103K50
C	2551(B,151,141)		CKSRYB102K50
C	2561(B,79,113)		CKSRYB102K50
C	2571(B,18,181)		CKSRYB102K50
C	2580(B,148,113)		CCSRCH561J50

O HEADPHONE ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
KN	2851(A,13,54)	WRAPPING TERMINAL	VNF1084
CN	2851(A,19,70)	4P JUMPER CONNECTOR	52147-0410
	2851(A,15,14)	PHONE JACK	AKN7029

RESISTORS

Mark	No.	Description	Part No.
R	2851(B,20,26)		RS1/16S102J
R	2852(B,16,27)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	2851(B,19,42)		CKSRYB392K50
C	2852(B,11,29)		CKSRYB392K50
C	2853(B,10,40)		CCSRCH471J50
C	2854(B,13,43)		CKSRYB103K50
C	2855(B,13,45)		CKSRYB104K16

P FRONT-IN ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	2701(B,36,55)	OP-AMP IC	BA4560RF
Q	2651(B,116,47)	CHIP TRANSISTOR	HN1C01FU
D	2701(B,29,62)	DIODE	DAN217
D	2702(B,33,32)	DIODE	UDZS5R1(B)
D	2703(B,31,29)	DIODE	UDZS5R1(B)
D	2704(B,28,46)	DIODE	UDZS5R1(B)
L	2653(B,117,59)	INDUCTOR	CTF1385
L	2671(B,143,58)	INDUCTOR	CTF1385
L	2681(B,92,65)	CHIP SOLID INDUCTOR	QTL1013
L	2752(B,68,60)	CHIP FERRITE BEADS	VTL1169
L	2753(B,72,55)	CHIP FERRITE BEADS	VTL1169
JA	2651(A,109,69)	PIN JACK(4P)	XKX3003
JA	2652(A,88,77)	OPTICAL IN MOD.	GP1FMV51RK0F
JA	2701(A,45,73)	JACK REMOCON	RKN1004
JA	2751(A,65,76)	USB CONNECTOR	XKP3086
KN	2651(A,156,42)	WRAPPING TERMINAL	VNF1084
KN	3351(A,44,37)	WRAPPING TERMINAL	VNF1084
CN	2651(A,40,28)	CONNECTOR	CKS3382
CN	2652(A,67,42)	CONNECTOR	B4B-PH

RESISTORS

Mark	No.	Description	Part No.
R	2651(B,121,58)		RS1/16S0R0J
R	2652(B,107,57)		RS1/16S0R0J
R	2653(B,128,58)		RS1/16S104J
R	2654(B,111,56)		RS1/16S104J
R	2655(B,128,54)		RS1/16S221J
R	2656(B,107,52)		RS1/16S221J
R	2657(B,124,54)		RS1/16S104J
R	2658(B,113,56)		RS1/16S104J
R	2659(B,122,46)		RS1/16S221J
R	2660(B,113,51)		RS1/16S221J
R	2661(B,118,46)		RS1/16S153J
R	2662(B,113,43)		RS1/16S153J
R	2663(B,120,46)		RS1/16S101J
R	2664(B,112,48)		RS1/16S101J
R	2665(B,100,46)		RS1/16S470J
R	2666(B,100,39)		RS1/16S470J
R	2668(B,131,57)		RS1/16S0R0J
R	2671(B,141,62)		RS1/16S750J
R	2672(B,145,62)		RS1/16S0R0J

Mark	No.	Description	Part No.
R	2673(B,152,59)		RS1/16S750J
R	2674(B,150,64)		RS1/16S750J
R	2675(B,152,55)		RS1/16S0R0J
R	2676(B,148,58)		RS1/16S0R0J
R	2681(B,85,65)		RS1/16S101J
R	2701(B,41,65)		RS1/16S102J
R	2702(B,38,68)		RS1/16S682J
R	2703(B,40,69)		RS1/16S104J
R	2704(B,30,66)		RS1/16S101J
R	2705(B,34,62)		RS1/16S104J
R	2706(B,30,57)		RS1/16S472J
R	2707(B,38,62)		RS1/16S333J
R	2708(B,41,61)		RS1/16S101J
R	2709(B,30,48)		RS1/16S472J
R	2710(B,34,48)		RS1/16S333J
R	2711(B,36,48)		RS1/16S101J
R	2712(B,34,28)		RS1/16S104J
R	2714(B,34,38)		RS1/16S102J
R	2751(B,65,60)		RS1/16S0R0J
R	2752(B,63,60)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	2651(B,126,58)		CCSRCH221J50
C	2652(B,109,56)		CCSRCH221J50
C	2653(A,125,47)		CEAT100M50
C	2654(A,109,46)		CEAT100M50
C	2655(B,126,54)		CCSRCH101J50
C	2656(B,115,56)		CCSRCH101J50
C	2659(A,125,39)	ELECT. CAPACITOR	CEAT470M25
C	2660(A,109,39)	ELECT. CAPACITOR	CEAT470M25
C	2661(B,113,40)		CKSRYB103K50
C	2662(B,115,37)		CKSRYB103K50
C	2663(A,102,46)	ELECT. CAPACITOR	CEAT330M25
C	2664(A,102,40)	ELECT. CAPACITOR	CEAT330M25
C	2665(B,152,46)		CKSRYB103K50
C	2666(B,150,46)		CKSRYB223K50
C	2671(B,130,61)		CKSRYB103K50
C	2673(B,154,57)		CKSRYB104K16
C	2674(B,156,46)		CKSRYB103K50
C	2675(B,158,46)		CKSRYB223K50
C	2681(B,89,65)		CKSRYB104K16
C	2701(B,42,69)		CCSRCH471J50
C	2702(A,36,66)		CEAT100M50
C	2703(B,32,62)		CCSRCH101J50
C	2704(B,36,62)		CCSRCH330J50
C	2705(B,32,48)		CCSRCH330J50
C	2706(A,34,36)		CEAT100M50
C	2707(B,48,43)		CKSRYB103K50
C	2709(B,52,43)		CKSRYB223K50
C	2712(A,35,44)		CEAT100M50
C	2713(B,40,57)		CKSRYB103K50
C	2714(B,40,53)		CKSRYB103K50
C	2715(A,49,59)		CEAT100M50
C	2716(A,49,53)		CEAT100M50
C	2718(B,40,38)		CKSRYB102K50
C	2719(B,40,36)		CCSRCH221J50
C	2753(B,68,56)		CKSRYB104K16
C	2755(A,68,51)		CEAT101M16
C	2756(B,73,51)		CKSRYB104K16
C	2757(B,73,46)		CCSRCH471J50

Q PRIMARY ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	2001(A,305,99)	REGULATOR IC	NJM78M56FA
Q	2001(B,281,60)	DIGITAL TR(SC-70)	RT1N431M
D	2001(B,276,60)	DIODE	1SS355
D	2002(B,276,65)	DIODE	1SS355
⚠ D	2003(B,296,87)	BRIDGE DIODE	S1WB(A)60SD
D	2004(B,304,75)	DIODE	1SS355
D	2006(B,308,70)	DIODE	UDZS5R1(B)
⚠ L	2001(A,244,24)	LINE FILTER	XTF3004
H	2001(A,243,46)	FUSE CLIP	AKR7001
H	2002(A,223,46)	FUSE CLIP	AKR7001
KN	2001(A,194,19)	SCREW PLATE	VNE1948
⚠ RY	2001(A,251,58)	JOE LOWPOWER RELAY	ASR7013
⚠ T	2001(A,273,84)	STANDBY TRANSFORMER	ATT7040
CN	2001(A,301,115)	9P SOCKET	KP200TA9L
CN	2002(A,246,115)	5P SOCKET	KP200TA5L
⚠ CN	2003(A,225,25)	AC CODE SOCKET	RKP1751

RESISTORS

Mark	No.	Description	Part No.
R	2002(A,279,68)	CARBON FILM RESISTOR	RD1/4MUF101J
R	2003(B,305,70)		RS1/16S103J
R	2004(B,302,70)		RS1/16S332J

CAPACITORS

Mark	No.	Description	Part No.
⚠ C	2002(A,266,26)	FILM CAPACITOR	ACE7013
⚠ C	2003(A,251,52)	SAFETY CAPACITOR	XCG3009
C	2004(A,290,106)	FILM CAPACITOR	CQMBA103J50
C	2009(A,303,88)	ELECT. CAPACITOR	CEAT332M25
C	2010(A,309,106)		CEAT221M25
C	2011(B,310,85)		CKSRYB103K50

R TRANS 1 ASSY

TRANS 1 ASSY has no service part.

SECONDARY ASSY (AWK7911)

MISCELLANEOUS

Mark	No.	Description	Part No.
Y	9	AWG18 BOARD IN	ADX7502
Y	10	AWG18 BOARD IN	ADX7503
Y	11	AWG18 BOARD IN	ADX7504
Y	12	AWG18 BOARD IN	ADX7505

S TRANS 2-1 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	3251(A,228,215)	PROTECTOR(7A)	AEK7021
⚠ IC	3252(A,239,164)	PROTECTOR(7A)	AEK7021
Q	3251(B,244,224)	CHIP TRANSISTOR	RN1901
Q	3252(B,253,224)	TRANSISTOR	UMD2N
Q	3253(B,261,224)	TRANSISTOR	UMD2N
⚠ D	3251(B,234,181)	BRIDGE DIODE	S1WB(A)60SD
D	3253(B,236,216)	DIODE	UDZS8R2(B)
D	3254(B,263,217)	DIODE	UDZS7R5(B)
D	3255(B,233,216)	DIODE	UDZS9R1(B)
D	3256(B,263,219)	DIODE	UDZS8R2(B)
D	3257(B,233,223)	DIODE	UDZS9R1(B)
D	3258(B,258,218)	DIODE	UDZS8R2(B)

Mark	No.	Description	Part No.
D	3259(B,238,223)	DIODE	UDZS6R8(B)
D	3260(B,258,220)	DIODE	UDZS6R8(B)
D	3261(B,240,220)	DIODE	UDZS12(B)
D	3262(B,253,220)	DIODE	UDZS12(B)
D	3263(B,238,218)	DIODE	UDZS13(B)
D	3264(B,253,218)	DIODE	UDZS15(B)
D	3265(B,257,226)	DIODE	UDZS13(B)
D	3266(B,267,227)	DIODE	UDZS13(B)
J	3251	JUMPER WIRE	D20PDY0610E
	3251(A,261,193)	6P CABLE HOLDER	51048-0600

RESISTORS

Mark	No.	Description	Part No.
⚠ R	3253(A,248,192)	METAL OXIDE RESISTOR	RS1LMF472J
⚠ R	3254(A,263,212)	METAL OXIDE RESISTOR	RS1LMF472J
⚠ R	3255(A,245,195)	CARBON FILM RESISTOR	RD1/2LMF332J
⚠ R	3256(A,259,215)	CARBON FILM RESISTOR	RD1/2LMF332J

CAPACITORS

Mark	No.	Description	Part No.
C	3253(A,243,186)	ELECT. CAPACITOR	CEAT471M2A
C	3254(A,253,172)	ELECT. CAPACITOR	CEAT471M2A
C	3255(A,240,202)	ELECT. CAPACITOR	CEAT101M63
C	3256(A,240,213)	ELECT. CAPACITOR	CEAT101M63
C	3257(A,269,190)	ELECT. CAPACITOR	CEAT221M2A
C	3258(A,262,201)	ELECT. CAPACITOR	CEAT221M2A

T DIODE 1 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ D	3301(A,175,164)	DIODE	D5SBA20(B)
⚠ D	3302(A,175,199)	DIODE	D5SBA20(B)

RESISTORS

Mark	No.	Description	Part No.
⚠ R	3301(A,194,172)	CARBON FILM RESISTOR	RD1/4MUF100J

CAPACITORS

Mark	No.	Description	Part No.
C	3301(A,191,182)	FILM CAPACITOR	CFTLA104J2A
C	3302(A,196,177)	FILM CAPACITOR	CFTLA104J2A

U VH TR ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	3351(A,177,136)	IC PROTECTOR	ICP-N15
⚠ IC	3352(A,177,152)	IC PROTECTOR	ICP-N15
⚠ Q	3351(B,172,130)	CHIP TRANSISTOR	2SA1514K
⚠ Q	3352(A,162,135)	TRANSISTOR	2SB1186A
⚠ Q	3353(A,162,150)	TRANSISTOR	2SD1763A
⚠ Q	3354(B,172,145)	CHIP TRANSISTOR	2SC3906K
⚠ D	3351(B,173,141)	DIODE	1SR154-400
⚠ D	3352(B,176,157)	DIODE	1SR154-400
CN	3351(A,184,138)	6P JUMPER CONNECTOR	52147-0610

RESISTORS

Mark	No.	Description	Part No.
R	3351(B,179,129)		RS1/16S471J
R	3352(B,168,128)		RS1/16S100J
R	3353(B,168,143)		RS1/16S100J
R	3354(B,177,144)		RS1/16S471J

V BRIDGE 1 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
CN	5811(A,46,130)	23P PLUG	XKP3071
CN	5812(A,46,105)	23P PLUG	XKP3071
	5811(A,8,101)	PCB BINDER	VEF1040

W PS/SP ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
Q	3001(B,161,85)	CHIP TRANSISTOR	DTC114TUA
Q	3002(B,229,97)	CHIP TRANSISTOR	DTC114TUA
Q	3003(B,247,90)	CHIP TRANSISTOR	DTC114TUA
Q	3004(B,290,84)	CHIP TRANSISTOR	DTC114TUA
Q	3005(B,212,99)	CHIP TRANSISTOR	DTC114TUA
D	3001(B,168,80)	DIODE	1SS355
D	3002(B,165,80)	DIODE	1SS355
D	3003(B,216,88)	DIODE	1SS355
D	3004(B,213,88)	DIODE	1SS355
D	3005(B,247,82)	DIODE	1SS355
D	3006(B,244,82)	DIODE	1SS355
D	3007(B,291,79)	DIODE	1SS355
D	3008(B,289,79)	DIODE	1SS355
D	3009(B,217,99)	DIODE	1SS355
D	3010(B,215,99)	DIODE	1SS355
L	3011(A,188,78)	COIL	ATH1053
L	3021(A,146,69)	COIL	ATH1053
L	3031(A,199,83)	COIL	ATH1053
L	3041(A,258,82)	COIL	ATH1053
L	3051(A,236,90)	COIL	ATH1053
L	3061(A,299,74)	COIL	ATH1053
L	3071(A,280,84)	COIL	ATH1053
J	3009(A,174,89)	CONNECTOR ASSY	PF13PG-R07
KN	3001(A,318,64)	WRAPPING TERMINAL	VNF1084
RY	3001(A,163,81)	RELAY	ASR7001
RY	3002(A,211,89)	RELAY	ASR7001
RY	3003(A,242,83)	RELAY	ASR7001
RY	3004(A,286,82)	RELAY	ASR7001
RY	3005(A,219,103)	RELAY	ASR7001
CN	3001(A,190,33)	SPEAKER TERMINAL 8-P	AKE7119
CN	3002(A,274,33)	SPEAKER TERMINAL 6-P	AKE7108
CN	3007(A,313,90)	5P PLUG 5P PLUG	KM200TA5
CN	3008(A,313,145)	9P PLUG	KM200TA9
Y	13	AWG14 BOARD IN	ADX7512
Y	8	AWG14 BOARD IN	ADX7512

RESISTORS

Mark	No.	Description	Part No.
⚠ R	3011(A,187,68)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3012(A,175,64)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	3013(A,193,94)	METAL OXIDE RESISTOR	RS2LMF331J
⚠ R	3021(A,148,79)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3022(A,152,51)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	3023(A,188,97)	METAL OXIDE RESISTOR	RS2LMF331J
⚠ R	3031(A,196,87)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3032(A,194,67)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	3041(A,254,82)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3042(A,267,67)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	3051(A,240,93)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3052(A,237,79)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	3061(A,309,63)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3062(A,313,73)	METAL OXIDE RESISTOR	RS1LMF100J

Mark	No.	Description	Part No.
⚠ R	3071(A,280,88)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3072(A,268,94)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	3101(A,222,115)	CARBON FILM RESISTOR	RD1/4MUF473J
⚠ R	3102(A,252,115)	CARBON FILM RESISTOR	RD1/4MUF473J

CAPACITORS

C	3001(A,164,89)		CEAT101M50
C	3011(A,190,60)		CFTLA104J50
C	3012(A,203,53)		CFTLA104J50
C	3013(A,190,42)	FILM CAPACITOR	CQMBA103J50
C	3021(A,157,48)		CFTLA104J50
C	3022(A,157,39)		CFTLA104J50
C	3023(A,169,42)	FILM CAPACITOR	CQMBA103J50
C	3031(A,205,66)		CFTLA104J50
C	3032(A,200,60)		CFTLA104J50
C	3033(A,211,42)	FILM CAPACITOR	CQMBA103J50
C	3041(A,257,63)		CFTLA104J50
C	3042(A,253,57)		CFTLA104J50
C	3043(A,253,42)	FILM CAPACITOR	CQMBA103J50
C	3051(A,224,70)		CFTLA104J50
C	3052(A,230,70)		CFTLA104J50
C	3053(A,232,42)	FILM CAPACITOR	CQMBA103J50
C	3061(A,308,58)		CFTLA104J50
C	3062(A,302,53)		CFTLA104J50
C	3063(A,295,42)	FILM CAPACITOR	CQMBA103J50
C	3071(A,274,70)		CFTLA104J50
C	3072(A,279,65)		CFTLA104J50
C	3073(A,274,42)	FILM CAPACITOR	CQMBA103J50
C	3091(B,181,50)		CKSRYB222K50
C	3092(B,179,50)		CKSRYB222K50
C	3093(B,265,50)		CKSRYB222K50
C	3094(B,263,50)		CKSRYB222K50
C	3096(B,318,55)		CKSRYB222K50
C	3101(A,212,137)		ACH7255
C	3102(A,258,137)		ACH7255

X TRANS 2-2 ASSY

MISCELLANEOUS

H	3401(A,120,100)	FUSE CLIP	AKR7001
H	3402(A,98,100)	FUSE CLIP	AKR7001
H	3403(A,120,87)	FUSE CLIP	AKR7001
H	3404(A,98,87)	FUSE CLIP	AKR7001
H	3405(A,120,74)	FUSE CLIP	AKR7001
H	3406(A,98,74)	FUSE CLIP	AKR7001
H	3407(A,119,57)	FUSE CLIP	AKR7001
H	3408(A,97,57)	FUSE CLIP	AKR7001
H	3409(A,120,45)	FUSE CLIP	AKR7001
H	3410(A,98,45)	FUSE CLIP	AKR7001
J	3401(A,132,97)	CONNECTOR ASS'Y	PF12PG-R40

Y TRANS SIDE ASSY

MISCELLANEOUS

J	3201	JUMPER WIRE	D20PDY0410E
CN	3202(A,60,8)	CONNECTOR	CKS3382
CN	3203(A,319,21)	CONNECTOR	B13B-PH
	3201(A,84,28)	4P CABLE HOLDER	51048-0400

Z LOCAL P-SUPPLY ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	3502(A,120,181)	PROTECTOR(1.6A)	AEK7012
⚠ IC	3504(A,80,176)	IC	NJM78M05FA
⚠ IC	3505(A,80,226)	REGULATOR IC	NJM78M56FA
⚠ IC	3506(A,80,201)	IC	NJM79M05FA
⚠ IC	3510(A,111,238)	PROTECTOR(1.6A)	AEK7012
⚠ Q	3501(B,110,149)	TRANSISTOR	UMD2N
⚠ Q	3502(A,80,151)	TRANSISTOR	2SD1763A
Q	3503(B,144,140)	DIGITAL TRANSISTOR	DTC124EUA
Q	3504(B,109,230)	CHIP TRANSISTOR	RSR015P03
Q	3505(B,115,232)	DIGITAL TRANSISTOR	DTC124EUA
⚠ D	3501(B,120,163)	DIODE	1SR154-400
⚠ D	3502(B,124,163)	DIODE	1SR154-400
⚠ D	3503(B,128,163)	DIODE	1SR154-400
D	3504(B,136,146)	DIODE	UDZS6R2(B)
D	3505(B,138,146)	DIODE	UDZS6R2(B)
D	3506(B,141,146)	DIODE	UDZS6R2(B)
D	3507(B,143,146)	DIODE	UDZS6R2(B)
D	3508(B,142,180)	DIODE	UDZS6R2(B)
⚠ D	3509(B,108,160)	DIODE	1SR154-400
⚠ D	3510(B,113,160)	DIODE	1SR154-400
D	3511(B,106,137)	DIODE	UDZS27(B)
⚠ D	3512(A,117,196)	DIODE	D3SBA20(B)
D	3513(B,86,180)	CHIP DIODE	RB501V-40
⚠ D	3514(A,95,181)	DIODE	MTZJ6R2(B)
D	3515(B,87,236)	CHIP DIODE	RB501V-40
D	3516(B,87,204)	CHIP DIODE	RB501V-40
D	3529(B,80,196)	DIODE	1SS355
J	3502	9P JUMPER WIRE	D20PDY0915E
J	3503(A,152,132)	CONNECTOR ASSY	PF05PG-Q15
J	3504(A,160,239)	CONNECTOR ASSY	PF10PG-R07
J	3505(A,138,232)	CONNECTOR ASSY	PF09PG-R37
J	3506	JUMPER WIRE	D20PDY0410E
CN	3501(A,141,151)	CONNECTOR	B12B-PH
	3502(A,149,215)	9P CABLE HOLDER	51048-0900
	3506(A,150,167)	4P CABLE HOLDER	51048-0400

RESISTORS

R	3501(B,120,152)		RS1/16S473J
⚠ R	3503(A,127,156)	CARBON FILM RESISTOR	RD1/4MUF391J
R	3504(B,111,142)		RS1/16S472J
R	3505(B,108,142)		RS1/16S101J
R	3506(B,140,139)		RS1/16S222J
⚠ R	3508(A,134,181)	CARBON FILM RESISTOR	RD1/4MUF4R7J
R	3511(B,106,235)		RS1/16S103J
R	3512(B,113,235)		RS1/16S101J

CAPACITORS

C	3501(A,150,148)	FILM CAPACITOR	CQMBA104J50
C	3502(A,122,168)	ELECT. CAPACITOR	CEANP101M35
C	3503(A,118,157)	ELECT. CAPACITOR	CEAT101M35
C	3504(A,123,147)		CEAT221M35
C	3505(A,139,179)		CEAT101M16
C	3506(A,133,145)		CEAT470M50
C	3508(B,122,152)		CKSRYB103K50
C	3510(A,110,171)	ELECT. CAPACITOR	CEANP102M16
C	3511(A,107,154)	ELECT. CAPACITOR	CEAT102M35
C	3512(A,112,133)		CEAT100M50

Mark	No.	Description	Part No.
C	3513(B,83,149)		CKSRYB102K50
C	3514(A,145,136)		CEAT100M50
C	3515(A,137,140)	ELECT. CAPACITOR	CEANP470M25
C	3516(A,122,187)	FILM CAPACITOR	CQMBA104J50
C	3517(B,83,175)		CKSRYB103K50
C	3518(A,85,189)		CEAT221M16
C	3519(A,117,208)	ELECT. CAPACITOR	CEAT682M16
C	3520(A,134,208)	ELECT. CAPACITOR	CEAT222M16
C	3521(B,83,224)		CKSRYB103K50
C	3522(B,87,201)		CKSRYB103K50
C	3523(A,88,227)		CEAT101M16
C	3524(A,85,214)		CEAT101M16

AA DC/DC ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	651 (A,43,196)	REGULATOR IC	PQ1CG3032FZ
⚠ Q	651 (A,65,206)	TRANSISTOR	2SD1858X
D	651 (B,45,207)	DIODE	RB051L-40
D	652 (B,66,211)	DIODE	UDZS7R5(B)
⚠ D	653 (A,38,152)	DIODE	D3SBA20(B)
⚠ D	654 (A,68,231)	DIODE	MTZJ6R2(B)
L	651 (A,50,212)	INDUCTOR	ATH7020
KN	651 (A,40,181)	SCREW PLATE	VNE1948
CN	651 (A,70,221)	3P TOP POST	B3B-EH
CN	652 (A,70,166)	4P JUMPER CONNECTOR	52147-0410
	651 (A,52,146)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
⚠ R	651 (A,64,164)	CARBON FILM RESISTOR	RD1/4MUF4R7J
R	652 (B,39,194)	CHIP METAL FILM R	RN1/16SE1800D
R	653 (B,38,195)		RN1/16SE3001D
R	654 (B,41,192)		RN1/16SE1001D
R	655 (B,64,210)		RS1/16S302J
R	656 (B,62,210)		RS1/16S101J

CAPACITORS

Mark	No.	Description	Part No.
C	651 (A,68,150)	FILM CAPACITOR	CQMBA104J50
C	654 (A,59,176)	ELECT. CAPACITOR	CEAT103M16
C	655 (A,67,189)	ELECT. CAPACITOR	CEHAZL102M16
C	657 (A,55,226)	ELECT. CAPACITOR	CEHAZL102M6R3
C	658 (A,67,214)		CEAT101M16
C	659 (A,69,206)		CEAT101M16

AB IR I/O ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ Q	3751(B,34,66)	TRANSISTOR	2SD1664
D	3752(B,41,60)	DIODE	UDZS10(B)
KN	3751(A,40,91)	SCREW PLATE	VNE1948
CN	3701(A,58,46)	10P CONNECTOR	VKN1241
CN	3702(A,74,44)	23P SOCKET	XKP3082
CN	3703(A,28,43)	CONNECTOR	CKS3376

RESISTORS

Mark	No.	Description	Part No.
R	3703(B,25,84)		RS1/16S0R0J
R	3752(A,38,66)	CARBON FILM RESISTOR	RD1/4MUF391J
R	3755(B,48,62)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	3701(B,49,81)		CKSRYB104K50
C	3702(B,27,84)		CCSRCH471J50
C	3752(A,38,61)		CEAT101M16
C	3753(B,26,71)		CKSRYB103K50
C	3754(B,24,71)		CKSRYB104K50
C	3755(B,28,71)		CKSRYB105K10
C	3756(B,67,56)		CKSRYB103K50
C	3757(B,71,58)		CCSRCH471J50

AC VIDEO CONNECT ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
CN	3801(A,288,240)	CONNECTOR POST	S9B-PH
CN	3802(A,298,175)	21P PLUG	XKP3070
CN	3803(A,305,198)	15P PLUG	XKP3067
CN	3804(A,308,222)	13P PLUG	XKP3066

POWER AMP ASSY (AWK7920)

MISCELLANEOUS

Mark	No.	Description	Part No.
J	3	JUMPER WIRE	D20PDY0525E
Y	5	LEAD WITH HOUSING	ADX7404
Y	4	LEAD WITH HOUSING	ADX7460
Y	3	LEAD WITH HOUSING	ADX7458
Y	2	LEAD WITH HOUSING	ADX7457
Y	1	LEAD WITH HOUSING	ADX7459
Y	6	LEAD WITH HOUSING	ADX7498

AD POWER AMP-L ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	5001(A,174,135)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5002(A,208,135)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5101(A,106,135)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5102(A,140,135)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5201(A,242,135)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5202(A,276,135)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5601(A,310,135)	DARLINGTON POWER IC	SAP17N(OY)
Q	5001(B,186,207)	CHIP TRANSISTOR	2SD2704K
Q	5002(B,174,194)	TRANSISTOR	IMT4
Q	5003(B,188,198)	CHIP TRANSISTOR	2SA1514K
⚠ Q	5004(A,185,184)	TRANSISTOR	2SA1145
Q	5005(A,161,191)	TRANSISTOR	2SC2705
Q	5041(B,149,195)	CHIP TR	2SA1255
Q	5101(B,132,207)	CHIP TRANSISTOR	2SD2704K
Q	5102(B,120,194)	TRANSISTOR	IMT4
Q	5103(B,134,198)	CHIP TRANSISTOR	2SA1514K
⚠ Q	5104(A,131,184)	TRANSISTOR	2SA1145
Q	5105(A,108,191)	TRANSISTOR	2SC2705
Q	5141(B,91,201)	CHIP TR	2SA1255
Q	5201(B,274,206)	CHIP TRANSISTOR	2SD2704K
Q	5202(B,262,193)	TRANSISTOR	IMT4
Q	5203(B,276,197)	CHIP TRANSISTOR	2SA1514K
⚠ Q	5204(A,273,183)	TRANSISTOR	2SA1145
Q	5205(A,250,191)	TRANSISTOR	2SC2705
Q	5241(B,238,197)	CHIP TR	2SA1255
⚠ D	5001(B,190,188)	CHIP ZENER DIODE	UDZS3R6(B)
⚠ D	5002(B,188,188)	DIODE	1SS355
⚠ D	5003(B,180,184)	DIODE	1SS355

Mark	No.	Description	Part No.
⚠ D	5004(B,172,184)	DIODE	1SS355
⚠ D	5005(B,177,184)	DIODE	UDZS4R7(B)
⚠ D	5006(B,175,184)	DIODE	UDZS4R7(B)
D	5041(B,149,174)	DIODE	1SS355
D	5042(B,151,174)	DIODE	1SS355
D	5043(B,151,203)	DIODE	1SS355
D	5044(B,154,171)	DIODE	1SS355
⚠ D	5101(B,137,188)	CHIP ZENER DIODE	UDZS3R6(B)
⚠ D	5102(B,135,188)	DIODE	1SS355
⚠ D	5103(B,126,184)	DIODE	1SS355
⚠ D	5104(B,119,184)	DIODE	1SS355
⚠ D	5105(B,124,184)	DIODE	UDZS4R7(B)
⚠ D	5106(B,121,184)	DIODE	UDZS4R7(B)
D	5141(B,91,188)	DIODE	1SS355
D	5142(B,95,188)	DIODE	1SS355
D	5143(B,95,202)	DIODE	1SS355
D	5144(B,97,188)	DIODE	1SS355
⚠ D	5201(B,279,187)	CHIP ZENER DIODE	UDZS3R6(B)
⚠ D	5202(B,276,187)	DIODE	1SS355
⚠ D	5203(B,268,183)	DIODE	1SS355
⚠ D	5204(B,261,183)	DIODE	1SS355
⚠ D	5205(B,266,183)	DIODE	UDZS4R7(B)
⚠ D	5206(B,263,183)	DIODE	UDZS4R7(B)
D	5241(B,238,173)	DIODE	1SS355
D	5242(B,240,173)	DIODE	1SS355
D	5243(B,240,202)	DIODE	1SS355
D	5244(B,242,173)	DIODE	1SS355
CN	5001(A,319,200)	13P SOCKET	XKP3077
CN	5002(A,85,214)	11P SOCKET	XKP3076
CN	5003(A,312,191)	PLUG 6-P	KM250NA6L
CN	5004(A,176,224)	CONNECTOR POST	B2B-PH
	5001(A,160,225)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	5001(B,192,202)		RS1/16S102J
R	5002(B,180,202)		RS1/16S221J
R	5003(B,177,203)		RS1/16S333J
R	5004(B,192,205)		RS1/16S103J
R	5005(B,170,191)		RS1/16S152J
R	5006(B,168,198)		RS1/16S821J
R	5007(B,191,197)		RS1/16S2001F
R	5008(B,179,194)		RS1/16S682J
R	5009(A,183,193)	CARBON FILM RESISTOR	RD1/2VM473J
R	5010(B,190,183)		RS1/16S151J
R	5011(B,188,184)		RN1/16SE1201D
R	5012(B,162,195)		RS1/16S221J
⚠ R	5013(B,183,150)		RS1/16S330J
R	5021(B,176,153)		RS1/16S101J
R	5022(B,190,153)		RS1/16S101J
⚠ R	5023(A,196,166)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5024(A,162,176)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5025(B,163,156)	CHIP RESISTOR	ACN7132
⚠ R	5026(B,200,156)	CHIP RESISTOR	ACN7132
⚠ R	5027(A,190,166)	RESISTOR (0.18, 5W)	ACN7121
R	5029(B,167,203)		RN1/10SE3302D
R	5030(B,173,203)		RN1/16SE1001D
R	5031(B,173,205)		RN1/16SE1500D
R	5032(B,160,195)		RS1/16S151J
R	5041(B,147,169)		RS1/16S473J

Mark	No.	Description	Part No.
R	5042(B,149,169)		RS1/16S223J
R	5043(B,145,169)		RS1/16S471J
R	5044(B,151,169)		RS1/16S471J
R	5045(B,151,179)		RS1/16S472J
R	5046(B,154,179)		RS1/16S472J
R	5047(B,150,187)		RS1/16S122J
R	5048(B,151,183)		RS1/16S154J
R	5049(B,154,183)		RS1/16S103J
R	5050(B,152,187)		RS1/16S103J
R	5101(B,139,202)		RS1/16S102J
R	5102(B,126,202)		RS1/16S221J
R	5103(B,123,203)		RS1/16S333J
R	5104(B,139,205)		RS1/16S103J
R	5105(B,116,191)		RS1/16S152J
R	5106(B,115,198)		RS1/16S821J
R	5107(B,138,197)		RS1/16S2001F
R	5108(B,126,194)		RS1/16S682J
R	5109(A,130,193)	CARBON FILM RESISTOR	RD1/2VM473J
R	5110(B,137,183)		RS1/16S151J
R	5111(B,135,184)		RN1/16SE1201D
R	5112(B,109,195)		RS1/16S221J
⚠ R	5113(B,115,150)		RS1/16S330J
R	5121(B,108,153)		RS1/16S101J
R	5122(B,129,150)		RS1/16S101J
⚠ R	5123(A,138,166)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5124(A,108,176)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5125(B,99,156)	CHIP RESISTOR	ACN7132
⚠ R	5126(B,136,156)	CHIP RESISTOR	ACN7132
⚠ R	5127(A,132,166)	RESISTOR (0.18, 5W)	ACN7121
R	5129(B,113,203)		RN1/10SE3302D
R	5130(B,119,203)		RN1/16SE1001D
R	5131(B,119,205)		RN1/16SE1500D
R	5132(B,106,195)		RS1/16S151J
R	5141(B,93,184)		RS1/16S473J
R	5142(B,95,184)		RS1/16S223J
R	5143(B,91,184)		RS1/16S471J
R	5144(B,97,184)		RS1/16S471J
R	5145(B,93,193)		RS1/16S472J
R	5146(B,96,193)		RS1/16S472J
R	5147(B,89,196)		RS1/16S122J
R	5148(B,95,197)		RS1/16S154J
R	5149(B,97,197)		RS1/16S103J
R	5150(B,97,202)		RS1/16S103J
R	5201(B,281,201)		RS1/16S102J
R	5202(B,268,201)		RS1/16S221J
R	5203(B,265,202)		RS1/16S333J
R	5204(B,281,204)		RS1/16S103J
R	5205(B,258,191)		RS1/16S152J
R	5206(B,257,198)		RS1/16S821J
R	5207(B,279,196)		RS1/16S2001F
R	5208(B,268,193)		RS1/16S682J
R	5209(A,271,192)	CARBON FILM RESISTOR	RD1/2VM473J
R	5210(B,278,183)		RS1/16S151J
R	5211(B,276,183)		RN1/16SE1201D
R	5212(B,251,195)		RS1/16S221J
⚠ R	5213(B,257,149)		RS1/16S330J
R	5221(B,251,153)		RS1/16S101J
R	5222(B,265,153)		RS1/16S101J
⚠ R	5223(A,280,164)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5224(A,249,175)	CARBON FILM RESISTOR	RD1/4MUF4R7J

Mark	No.	Description	Part No.
⚠ R	5225(B,238,156)	CHIP RESISTOR	ACN7132
⚠ R	5226(B,276,156)	CHIP RESISTOR	ACN7132
⚠ R	5227(A,274,165)	RESISTOR (0.18, 5W)	ACN7121
R	5229(B,255,202)		RN1/10SE3302D
R	5230(B,261,202)		RN1/16SE1001D
R	5231(B,261,204)		RN1/16SE1500D
R	5232(B,248,195)		RS1/16S151J
R	5241(B,237,169)		RS1/16S473J
R	5242(B,239,169)		RS1/16S223J
R	5243(B,235,169)		RS1/16S471J
R	5244(B,241,169)		RS1/16S471J
R	5245(B,240,180)		RS1/16S472J
R	5246(B,242,180)		RS1/16S472J
R	5247(B,240,189)		RS1/16S122J
R	5248(B,237,180)		RS1/16S154J
R	5249(B,242,184)		RS1/16S103J
R	5250(B,240,184)		RS1/16S103J
⚠ R	5292(B,300,156)	CHIP RESISTOR	ACN7132
⚠ R	5613(B,317,154)		RS1/16S330J
R	5621(B,312,154)		RS1/16S101J

CAPACITORS

Mark	No.	Description	Part No.
C	5001(A,183,203)		CEAT4R7M50
C	5002(B,177,200)		CCSRCH221J50
C	5004(B,167,194)		CKSRYB102K50
C	5007(A,195,193)		CEAT101M10
C	5008(B,164,195)	CAPACITOR(CERAMIC)	ACG7057
C	5009(A,179,189)	ELECT. CAPACITOR	CEAT100M2A
C	5011(B,169,142)	CAPACITOR(CERAMIC)	ACG7056
C	5012(B,197,142)	CAPACITOR(CERAMIC)	ACG7056
C	5015(B,168,205)		CCSRCH220J50
C	5016(B,168,207)		CCSRCH220J50
C	5017(A,172,207)		CEAT331M10
C	5023(A,190,180)		CEAT100M63
C	5024(A,166,184)		CEAT100M63
C	5032(B,162,199)		CKSRYB224K16
C	5041(A,147,190)		CEANP2R2M50
C	5051(A,217,183)	ELECT. CAPACITOR	CEAT100M2A
C	5052(A,222,177)	ELECT. CAPACITOR	CEAT100M2A
C	5101(A,129,203)		CEAT4R7M50
C	5102(B,123,200)		CCSRCH221J50
C	5104(B,113,194)		CKSRYB102K50
C	5107(A,141,193)		CEAT101M10
C	5108(B,111,195)	CAPACITOR(CERAMIC)	ACG7057
C	5109(A,125,189)	ELECT. CAPACITOR	CEAT100M2A
C	5111(B,101,142)	CAPACITOR(CERAMIC)	ACG7056
C	5112(B,130,142)	CAPACITOR(CERAMIC)	ACG7056
C	5115(B,115,205)		CCSRCH220J50
C	5116(B,115,207)		CCSRCH220J50
C	5117(A,119,207)		CEAT331M10
C	5123(A,137,180)		CEAT100M63
C	5124(A,112,184)		CEAT100M63
C	5132(B,108,199)		CKSRYB224K16
C	5141(A,88,191)		CEANP2R2M50
C	5201(A,271,202)		CEAT4R7M50
C	5202(B,265,199)		CCSRCH221J50
C	5204(B,255,194)		CKSRYB102K50
C	5207(A,283,192)		CEAT101M10
C	5208(B,253,195)	CAPACITOR(CERAMIC)	ACG7057
C	5209(A,267,187)	ELECT. CAPACITOR	CEAT100M2A

Mark	No.	Description	Part No.
C	5211(B,243,142)	CAPACITOR(CERAMIC)	ACG7056
C	5212(B,271,142)	CAPACITOR(CERAMIC)	ACG7056
C	5215(B,257,204)		CCSRCH220J50
C	5216(B,257,206)		CCSRCH220J50
C	5217(A,261,206)		CEAT331M10
C	5223(A,287,181)		CEAT100M63
C	5224(A,255,184)		CEAT100M63
C	5232(B,250,199)		CKSRYB224K16
C	5241(A,237,192)		CEANP2R2M50
C	5611(B,307,142)	CAPACITOR(CERAMIC)	ACG7056

AE POSI 1-L ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ TH	4501(A,54,223)	POSISTOR	PTFM04BH222Q2N34B0
J	4501(A,66,220)	CONNECTOR ASSY	PG02KS-E07

AF POSI 2-L ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ TH	4502(A,79,235)	POSISTOR	PTFM04BC222Q2N34B0
J	4502(A,76,223)	CONNECTOR ASSY	PG02KS2E07

AG POWER AMP-R ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	5301(A,196,111)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5302(A,162,111)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5401(A,128,111)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5402(A,94,111)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5501(A,264,111)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5502(A,230,111)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5602(A,298,111)	DARLINGTON POWER IC	SAP17P(OY)
Q	5301(B,186,38)	CHIP TRANSISTOR	2SD2704K
Q	5302(B,176,52)	TRANSISTOR	IMT4
Q	5303(B,187,48)	CHIP TRANSISTOR	2SA1514K
⚠ Q	5304(A,185,62)	TRANSISTOR	2SA1145
Q	5305(A,161,55)	TRANSISTOR	2SC2705
Q	5341(B,146,56)	CHIP TR	2SA1255
Q	5401(B,132,38)	CHIP TRANSISTOR	2SD2704K
Q	5402(B,122,52)	TRANSISTOR	IMT4
Q	5403(B,133,48)	CHIP TRANSISTOR	2SA1514K
⚠ Q	5404(A,131,62)	TRANSISTOR	2SA1145
Q	5405(A,108,55)	TRANSISTOR	2SC2705
Q	5441(B,91,45)	CHIP TR	2SA1255
Q	5501(B,275,38)	CHIP TRANSISTOR	2SD2704K
Q	5502(B,266,52)	TRANSISTOR	IMT4
Q	5503(B,277,48)	CHIP TRANSISTOR	2SA1514K
⚠ Q	5504(A,274,63)	TRANSISTOR	2SA1145
Q	5505(A,252,55)	TRANSISTOR	2SC2705
Q	5541(B,239,49)	CHIP TR	2SA1255
Q	5571(B,223,38)	TRANSISTOR	2SC4081
Q	5572(B,220,38)	TRANSISTOR	2SC4081
⚠ D	5301(B,191,58)	CHIP ZENER DIODE	UDZS3R6(B)
⚠ D	5302(B,188,58)	DIODE	1SS355
⚠ D	5303(B,180,62)	DIODE	1SS355
⚠ D	5304(B,173,62)	DIODE	1SS355
⚠ D	5305(B,177,62)	DIODE	UDZS4R7(B)
⚠ D	5306(B,175,62)	DIODE	UDZS4R7(B)
D	5341(B,151,71)	DIODE	1SS355

Mark	No.	Description	Part No.
D	5342(B,149,71)	DIODE	1SS355
D	5343(B,150,50)	DIODE	1SS355
D	5344(B,153,71)	DIODE	1SS355
⚠ D	5401(B,137,58)	CHIP ZENER DIODE	UDZS3R6(B)
⚠ D	5402(B,135,58)	DIODE	1SS355
⚠ D	5403(B,126,62)	DIODE	1SS355
⚠ D	5404(B,119,62)	DIODE	1SS355
⚠ D	5405(B,124,62)	DIODE	UDZS4R7(B)
⚠ D	5406(B,122,62)	DIODE	UDZS4R7(B)
D	5441(B,95,58)	DIODE	1SS355
D	5442(B,92,58)	DIODE	1SS355
D	5443(B,94,41)	DIODE	1SS355
D	5444(B,97,58)	DIODE	1SS355
⚠ D	5501(B,280,59)	CHIP ZENER DIODE	UDZS3R6(B)
⚠ D	5502(B,277,59)	DIODE	1SS355
⚠ D	5503(B,267,62)	DIODE	1SS355
⚠ D	5504(B,261,62)	DIODE	1SS355
⚠ D	5505(B,265,62)	DIODE	UDZS4R7(B)
⚠ D	5506(B,263,62)	DIODE	UDZS4R7(B)
D	5541(B,240,71)	DIODE	1SS355
D	5542(B,238,71)	DIODE	1SS355
D	5543(B,240,45)	DIODE	1SS355
D	5544(B,242,73)	DIODE	1SS355
CN	5301(A,319,31)	13P SOCKET	XKP3077
CN	5302(A,85,45)	11P SOCKET	XKP3076
CN	5303(A,312,68)	PLUG 6-P	KM250NA6L
CN	5304(A,143,23)	CONNECTOR POST	B2B-PH
	5002(A,236,21)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	5301(B,192,43)		RS1/16S102J
R	5302(B,180,42)		RS1/16S221J
R	5303(B,177,41)		RS1/16S333J
R	5304(B,192,40)		RS1/16S103J
R	5305(B,170,55)		RS1/16S152J
R	5306(B,168,47)		RS1/16S821J
R	5307(B,190,48)		RS1/16S2001F
R	5308(B,179,54)		RS1/16S682J
R	5309(A,183,48)	CARBON FILM RESISTOR	RD1/2VM473J
R	5310(B,191,62)		RS1/16S151J
R	5311(B,188,62)		RN1/16SE1201D
R	5312(B,162,51)		RS1/16S221J
⚠ R	5313(B,183,97)		RS1/16S330J
R	5321(B,190,93)		RS1/16S101J
R	5322(B,176,93)		RS1/16S101J
⚠ R	5323(A,196,79)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5324(A,161,70)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5325(B,203,91)	CHIP RESISTOR	ACN7132
⚠ R	5326(B,166,91)	CHIP RESISTOR	ACN7132
⚠ R	5327(A,172,80)	RESISTOR (0.18, 5W)	ACN7121
R	5329(B,168,44)		RN1/10SE3302D
R	5330(B,173,45)		RN1/16SE1001D
R	5331(B,173,43)		RN1/16SE1500D
R	5332(B,160,51)		RS1/16S151J
R	5341(B,150,75)		RS1/16S473J
R	5342(B,148,75)		RS1/16S223J
R	5343(B,153,75)		RS1/16S471J
R	5344(B,146,75)		RS1/16S471J
R	5345(B,152,65)		RS1/16S472J

Mark	No.	Description	Part No.
R	5346(B,149,65)		RS1/16S472J
R	5347(B,145,62)		RS1/16S122J
R	5348(B,148,61)		RS1/16S154J
R	5349(B,150,61)		RS1/16S103J
R	5350(B,150,55)		RS1/16S103J
R	5401(B,139,43)		RS1/16S102J
R	5402(B,126,42)		RS1/16S221J
R	5403(B,123,41)		RS1/16S333J
R	5404(B,139,40)		RS1/16S103J
R	5405(B,116,55)		RS1/16S152J
R	5406(B,114,47)		RS1/16S821J
R	5407(B,137,48)		RS1/16S2001F
R	5408(B,126,54)		RS1/16S682J
R	5409(A,129,48)	CARBON FILM RESISTOR	RD1/2VM473J
R	5410(B,137,62)		RS1/16S151J
R	5411(B,135,62)		RN1/16SE1201D
R	5412(B,109,51)		RS1/16S221J
⚠ R	5413(B,115,97)		RS1/16S330J
R	5421(B,128,93)		RS1/16S101J
R	5422(B,108,93)		RS1/16S101J
⚠ R	5423(A,138,80)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5424(A,107,70)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5425(B,135,91)	CHIP RESISTOR	ACN7132
⚠ R	5426(B,99,91)	CHIP RESISTOR	ACN7132
⚠ R	5427(A,114,80)	RESISTOR (0.18, 5W)	ACN7121
R	5429(B,114,44)		RN1/10SE3302D
R	5430(B,119,45)		RN1/16SE1001D
R	5431(B,119,43)		RN1/16SE1500D
R	5432(B,106,51)		RS1/16S151J
R	5441(B,95,63)		RS1/16S473J
R	5442(B,93,63)		RS1/16S223J
R	5443(B,97,63)		RS1/16S471J
R	5444(B,91,63)		RS1/16S471J
R	5445(B,96,54)		RS1/16S472J
R	5446(B,92,54)		RS1/16S472J
R	5447(B,88,49)		RS1/16S122J
R	5448(B,94,50)		RS1/16S154J
R	5449(B,96,50)		RS1/16S103J
R	5450(B,96,46)		RS1/16S103J
R	5501(B,283,44)		RS1/16S102J
R	5502(B,270,42)		RS1/16S221J
R	5503(B,267,41)		RS1/16S333J
R	5504(B,283,40)		RS1/16S103J
R	5505(B,260,55)		RS1/16S152J
R	5506(B,258,47)		RS1/16S821J
R	5507(B,281,48)		RS1/16S2001F
R	5508(B,270,54)		RS1/16S682J
R	5509(A,273,48)	CARBON FILM RESISTOR	RD1/2VM473J
R	5510(B,280,63)		RS1/16S151J
R	5511(B,277,63)		RN1/16SE1201D
R	5512(B,253,51)		RS1/16S221J
⚠ R	5513(B,257,97)		RS1/16S330J
R	5521(B,268,94)		RS1/16S101J
R	5522(B,251,93)		RS1/16S101J
⚠ R	5523(A,280,82)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5524(A,250,70)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5525(B,277,91)	CHIP RESISTOR	ACN7132
⚠ R	5526(B,241,91)	CHIP RESISTOR	ACN7132
⚠ R	5527(A,256,80)	RESISTOR (0.18, 5W)	ACN7121
R	5529(B,258,44)		RN1/10SE3302D

Mark	No.	Description	Part No.
R	5530(B,263,45)		RN1/16SE1001D
R	5531(B,263,43)		RN1/16SE1500D
R	5532(B,250,51)		RS1/16S151J
R	5541(B,241,77)		RS1/16S473J
R	5542(B,235,77)		RS1/16S223J
R	5543(B,239,77)		RS1/16S471J
R	5544(B,237,77)		RS1/16S471J
R	5545(B,240,64)		RS1/16S472J
R	5546(B,238,64)		RS1/16S472J
R	5547(B,238,57)		RS1/16S122J
R	5548(B,235,68)		RS1/16S154J
R	5549(B,236,64)		RS1/16S103J
R	5550(B,242,46)		RS1/16S103J
R	5571(B,226,38)		RS1/16S472J
⚠ R	5592(B,301,91)	CHIP RESISTOR	ACN7132
R	5622(B,311,93)		RS1/16S101J

CAPACITORS

Mark	No.	Description	Part No.
C	5301(A,183,43)		CEAT4R7M50
C	5302(B,177,43)		CCSRCH221J50
C	5304(B,167,51)		CKSRYB102K50
C	5307(A,195,53)		CEAT101M10
C	5308(B,164,51)	CAPACITOR(CERAMIC)	ACG7057
C	5309(A,179,58)	ELECT. CAPACITOR	CEAT100M2A
C	5311(B,197,104)	CAPACITOR(CERAMIC)	ACG7056
C	5312(B,170,104)	CAPACITOR(CERAMIC)	ACG7056
C	5315(B,168,41)		CCSRCH220J50
C	5316(B,168,39)		CCSRCH220J50
C	5317(A,172,39)		CEAT331M10
C	5323(A,190,66)		CEAT100M63
C	5324(A,165,62)		CEAT100M63
C	5332(B,162,47)		CKSRYB224K16
C	5341(A,145,66)		CEANP2R2M50
C	5351(A,226,68)	ELECT. CAPACITOR	CEAT100M2A
C	5352(A,222,62)	ELECT. CAPACITOR	CEAT100M2A
C	5401(A,129,43)		CEAT4R7M50
C	5402(B,123,43)		CCSRCH221J50
C	5404(B,113,51)		CKSRYB102K50
C	5407(A,141,53)		CEAT101M10
C	5408(B,111,51)	CAPACITOR(CERAMIC)	ACG7057
C	5409(A,125,58)	ELECT. CAPACITOR	CEAT100M2A
C	5411(B,130,104)	CAPACITOR(CERAMIC)	ACG7056
C	5412(B,101,104)	CAPACITOR(CERAMIC)	ACG7056
C	5415(B,114,41)		CCSRCH220J50
C	5416(B,114,39)		CCSRCH220J50
C	5417(A,119,39)		CEAT331M10
C	5423(A,137,66)		CEAT100M63
C	5424(A,111,62)		CEAT100M63
C	5432(B,108,47)		CKSRYB224K16
C	5441(A,88,53)		CEANP2R2M50
C	5501(A,273,43)		CEAT4R7M50
C	5502(B,267,43)		CCSRCH221J50
C	5504(B,257,51)		CKSRYB102K50
C	5507(A,284,54)		CEAT101M10
C	5508(B,255,51)	CAPACITOR(CERAMIC)	ACG7057
C	5509(A,267,58)	ELECT. CAPACITOR	CEAT100M2A
C	5511(B,271,104)	CAPACITOR(CERAMIC)	ACG7056
C	5512(B,243,104)	CAPACITOR(CERAMIC)	ACG7056
C	5515(B,258,41)		CCSRCH220J50

Mark	No.	Description	Part No.
C	5516(B,258,39)		CCSRCH220J50
C	5517(A,263,39)		CEAT331M10
C	5523(A,289,64)		CEAT100M63
C	5524(A,254,62)		CEAT100M63
C	5532(B,252,47)		CKSRYB224K16
C	5541(A,238,54)		CEANP2R2M50
C	5571(A,229,35)		CEAT331M10
C	5612(B,307,104)	CAPACITOR(CERAMIC)	ACG7056

AH POSI 1-R ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ TH	4503(A,54,235)	POSISTOR	PTFM04BH222Q2N34B0
J	4551(A,66,232)	CONNECTOR ASSY	PG02KS-E07

A I POWER AMP IN ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
Q	5601(B,58,86)	CHIP TRANSISTOR	2SD2704K
Q	5602(B,46,41)	TRANSISTOR	IMT4
Q	5603(B,42,54)	CHIP TRANSISTOR	2SA1514K
⚠ Q	5604(A,32,55)	TRANSISTOR	2SA1145
Q	5605(A,33,38)	TRANSISTOR	2SC2705
Q	5641(B,11,26)	CHIP TR	2SA1255
⚠ D	5601(B,35,57)	CHIP ZENER DIODE	UDZS3R6(B)
⚠ D	5602(B,35,53)	DIODE	1SS355
⚠ D	5603(B,26,49)	DIODE	1SS355
⚠ D	5604(B,23,44)	DIODE	1SS355
⚠ D	5605(B,23,47)	DIODE	UDZS4R7(B)
⚠ D	5606(B,21,42)	DIODE	UDZS4R7(B)
D	5641(B,18,23)	DIODE	1SS355
D	5642(B,20,23)	DIODE	1SS355
D	5643(B,13,21)	DIODE	1SS355
D	5644(B,28,23)	DIODE	1SS355
CN	5601(A,71,64)	13P PLUG	XKP3066
CN	5602(A,56,31)	13P PLUG	XKP3066
CN	5603(A,76,131)	19P CONNECTOR	52044-1945
CN	5605(A,47,65)	SOCKET 6-P	KP250NA6
CN	5606(A,34,31)	SOCKET 6-P	KP250NA6
	5604(A,7,50)	5P CABLE HOLDER	51048-0500

RESISTORS

Mark	No.	Description	Part No.
R	5601(B,58,93)		RS1/16S102J
R	5602(B,54,41)		RS1/16S221J
R	5603(B,52,41)		RS1/16S333J
R	5604(B,57,82)		RS1/16S103J
R	5605(B,46,36)		RS1/16S152J
R	5606(B,41,38)		RS1/16S821J
R	5607(B,42,59)		RS1/16S2001F
R	5608(B,42,42)		RS1/16S682J
R	5609(A,32,46)	CARBON FILM RESISTOR	RD1/2VM473J
R	5610(B,30,59)		RS1/16S151J
R	5611(B,33,59)		RN1/16SE1201D
R	5612(B,33,34)		RS1/16S221J
⚠ R	5623(A,65,58)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5624(A,65,40)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5627(A,19,56)	RESISTOR (0.18, 5W)	ACN7121
R	5629(B,47,48)		RN1/10SE3302D
R	5630(B,49,46)		RN1/16SE1001D
R	5631(B,49,51)		RN1/16SE1500D

Mark	No.	Description	Part No.
R	5632(B,30,36)		RS1/16S151J
R	5641(B,14,43)		RS1/16S473J
R	5642(B,17,33)		RS1/16S223J
R	5643(B,14,33)		RS1/16S471J
R	5644(B,15,38)		RS1/16S471J
R	5645(B,18,28)		RS1/16S472J
R	5646(B,20,28)		RS1/16S472J
R	5647(B,10,33)		RS1/16S122J
R	5648(B,45,25)		RS1/16S154J
R	5649(B,49,26)		RS1/16S103J
R	5650(B,51,26)		RS1/16S103J

CAPACITORS

Mark	No.	Description	Part No.
C	5601(A,53,45)		CEAT4R7M50
C	5602(B,50,41)		CCSRCH221J50
C	5604(B,44,36)		CKSRYB102K50
C	5607(A,38,57)		CEAT101M10
C	5608(B,36,42)	CAPACITOR(CERAMIC)	ACG7057
C	5609(A,27,51)	ELECT. CAPACITOR	CEAT100M2A
C	5615(B,45,47)		CCSRCH220J50
C	5616(B,42,49)		CCSRCH220J50
C	5617(A,47,52)		CEAT331M10
C	5623(A,69,58)		CEAT100M63
C	5624(A,69,42)		CEAT100M63
C	5632(B,28,39)		CKSRYB224K16
C	5641(A,12,35)		CEANP2R2M50

AJ POWER PROTECT ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	5701(B,19,110)	OP-AMP IC	BA4560RF
Q	5701(B,26,161)	TRANSISTOR	RT1N241M
Q	5702(B,16,161)	DIGITAL TR(SC-70)	RT1P241M
Q	5703(B,16,151)	TRANSISTOR	RT1N241M
Q	5704(B,33,100)	TRANSISTOR	2SC4081
Q	5705(B,23,161)	TRANSISTOR	RT1N241M
Q	5706(B,12,161)	DIGITAL TR(SC-70)	RT1P241M
D	5701(B,23,94)	DIODE	1SS355
D	5702(B,30,205)	DIODE	1SS355
CN	5701(A,28,171)	11P PLUG	XKP3065
CN	5702(A,15,138)	11P PLUG	XKP3065
CN	5703(A,8,85)	19P CONNECTOR	52044-1945
CN	5704(A,37,83)	CONNECTOR	S5B-PH
CN	5705(A,30,223)	17P CONNECTOR	52044-1745
CN	5706(A,38,222)	3PIN CONNECTOR	S3B-EH

RESISTORS

Mark	No.	Description	Part No.
R	5701(B,23,151)		RS1/16S562J
R	5702(B,21,151)		RS1/16S562J
R	5703(B,10,181)		RS1/16S473J
R	5705(B,18,187)		RS1/16S0R0J
R	5706(B,19,151)		RS1/16S822J
R	5707(B,18,181)		RS1/16S473J
R	5708(B,13,187)		RS1/16S0R0J
R	5710(B,17,118)		RS1/16S223J
R	5711(B,13,112)		RS1/16S103J
R	5712(B,13,108)		RS1/16S472J
R	5713(B,23,106)		RS1/16S103J
R	5714(B,24,131)		RS1/16S102J
R	5715(B,27,101)		RS1/16S473J
R	5716(B,29,101)		RS1/16S472J
R	5717(B,33,95)		RS1/16S103J
R	5718(B,30,210)		RS1/16S104J
R	5720(B,31,95)		RS1/16S103J
R	5721(B,29,95)		RS1/16S683J
R	5746(B,20,181)		RS1/16S0R0J
R	5747(B,18,161)		RS1/16S0R0J
R	5750(B,35,95)		RS1/16S0R0J
R	5751(B,26,131)		RS1/16S0R0J
R	5752(B,25,101)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	5701(B,13,181)		CKSRYB104K50
C	5702(B,15,181)		CKSRYB104K50
C	5703(B,23,110)		CKSRYB103K50
C	5704(B,23,114)		CKSRYB103K50
C	5705(B,31,101)		CKSRYB223K50
C	5706(B,37,217)		CKSRYB103K50

AK HDMI ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	101 (A,53,65)	HDMI RECEIVER IC	SII9135CTU
IC	151 (A,34,85)	EEPROM	BR24L02FV-W
IC	152 (A,27,84)	IC	TC7MB3257FK
IC	171 (A,21,68)	EEPROM	BR24L02FV-W
IC	172 (A,27,69)	IC	TC7MB3257FK
IC	201 (A,82,35)	IC	TC74LCX541FTS1
IC	202 (A,91,24)	IC	TC74VHC125FTS1
IC	301 (A,51,31)	HDMI TRANSMITER IC	SII9134CTU
IC	401 (A,139,58)	VIDEO DECODER IC	ADV7800BSTZ-80
IC	402 (A,162,66)	LOGIC IC	TC7WHU04FU
IC	451 (A,79,73)	IC	TC74LCX541FTS1
IC	452 (A,79,64)	IC	TC74LCX541FTS1
IC	453 (A,79,54)	IC	TC74LCX541FTS1
IC	454 (A,79,45)	IC	TC74LCX541FTS1
IC	455 (A,80,79)	IC	TC7SZ125FU
IC	501 (B,104,36)	CPU	PEG118A
IC	502 (A,104,38)	FLASH ROM	AYW7166
IC	503 (A,70,16)	IC	TC74VHC125FTS1
IC	701 (A,105,59)	VIDEO ENCODER IC	ADV7172KSTZ
⚠ IC	901 (A,71,32)	IC	NJM2886DL3-33
⚠ IC	902 (A,147,22)	IC	BD9850FVM
⚠ IC	903 (B,135,28)	REGULATOR IC	NJM2845DL1-33
⚠ IC	904 (B,163,46)	IC	NJM2885DL1-18
⚠ IC	905 (A,158,39)	REGULATOR IC	NJM2845DL1-33
⚠ IC	911 (B,81,16)	REGULATOR IC	NJM2872BF05
Q	101 (B,59,71)	DIGITAL TR(SC-70)	RT1N431M
Q	102 (B,56,71)	DIGITAL TR(SC-70)	RT1P241M
Q	103 (B,59,66)	DIGITAL TR(SC-70)	RT1N431M
Q	104 (B,56,66)	DIGITAL TR(SC-70)	RT1P241M
Q	151 (B,18,91)	CHIP TRANSISTOR	DTC114YUA
Q	152 (B,27,84)	CHIP TRANSISTOR	DTC114YUA
Q	161 (A,40,90)	DUAL MOS FET	HN1K02FU
Q	171 (B,20,55)	CHIP TRANSISTOR	DTC114YUA
Q	172 (B,29,69)	CHIP TRANSISTOR	DTC114YUA
Q	351 (A,28,46)	CHIP TR (PNP X 2)	UMB1N
Q	352 (A,24,46)	CHIP TRANSISTOR	DTC114YUA
Q	731 (A,92,70)	TRANSISTOR	2SA1576A
Q	741 (A,97,70)	TRANSISTOR	2SA1576A

Mark	No.	Description	Part No.
	Q 751 (A,101,70)	TRANSISTOR	2SA1576A
	Q 761 (A,106,70)	TRANSISTOR	2SA1576A
	Q 771 (A,110,70)	TRANSISTOR	2SA1576A
	Q 781 (A,115,70)	TRANSISTOR	2SA1576A
⚠	Q 901 (A,153,19)	MOS FET	RTQ025P02
	Q 902 (A,139,29)	CHIP TRANSISTOR	DTC114YUA
	Q 907 (A,138,25)	TRANSISTOR	2SC4081
	Q 908 (A,135,25)	CHIP TRANSISTOR	DTC114YUA
	D 151 (A,42,85)	DIODE	DAN202U
	D 171 (A,26,63)	DIODE	DAN202U
	D 301 (A,53,15)	DIODE	UDZS5R1(B)
	D 501 (A,87,39)	CHIP DIODE	RB501V-40
⚠	D 901 (A,151,15)	DIODE	RSX201L-30
	D 903 (A,123,33)	DIODE	RB551V-30
	L 101 (B,74,76)	CHIP BEADS	ATL7010
	L 102 (A,69,51)	CHIP BEADS	ATL7010
	L 103 (A,41,82)	CHIP BEADS	ATL7010
	L 104 (A,40,50)	CHIP BEADS	ATL7010
	L 105 (B,52,61)	CHIP SOLID INDUCTOR	QTL1013
	L 106 (B,54,61)	CHIP SOLID INDUCTOR	QTL1013
	L 301 (A,40,16)	CHIP BEADS	ATL7010
	L 302 (A,69,45)	CHIP BEADS	ATL7010
	L 303 (A,36,27)	CHIP BEADS	ATL7010
	L 304 (A,38,39)	CHIP BEADS	ATL7010
	L 305 (A,36,39)	CHIP BEADS	ATL7010
⚠	L 351 (A,22,29)	COIL COIL	ATH7022
⚠	L 352 (A,22,32)	COIL COIL	ATH7022
⚠	L 353 (A,22,34)	COIL COIL	ATH7022
⚠	L 354 (A,22,37)	COIL COIL	ATH7022
	L 401 (A,121,84)	CHIP BEADS	ATL7010
	L 402 (A,149,38)	CHIP BEADS	ATL7010
	L 403 (A,152,73)	CHIP SOLID INDUCTOR	QTL1013
	L 404 (A,137,84)	CHIP BEADS	ATL7010
	L 405 (A,161,72)	CHIP SOLID INDUCTOR	QTL1013
	L 502 (A,134,29)	CHIP BEADS	ATL7010
	L 701 (A,97,51)	CHIP BEADS	ATL7010
	L 702 (A,87,57)	CHIP BEADS	ATL7010
	L 902 (A,158,14)	POWER INDUCTOR	ATH7047
	L 903 (A,139,20)	CHIP BEADS	ATL7010
	L 1001(A,69,24)	CHIP BEADS	ATL7010
	JA 101 (A,13,79)	HDMI CONNECTOR	AKP1318
	JA 102 (A,13,57)	HDMI CONNECTOR	AKP1318
	JA 301 (A,13,35)	HDMI CONNECTOR	AKP1318
	X 101 (A,56,46)	CRYSTAL RESONATOR	ASS7068
	X 401 (A,161,58)	CRYSTAL RESONATOR	ASS7069
	X 501 (A,109,30)	CERAMIC RESONATOR	XSS3004
	CN501 (A,15,19)	7P FFC CONNECTOR	RKN1048
	CN1001(A,121,13)	30P SOCKET	XKP3092
	CN1002(A,83,81)	23P SOCKET	XKP3082

RESISTORS

Mark	No.	Description	Part No.
	R 101 (A,67,70)	RESISTOR ARRAY	RAB4CQ220J
	R 102 (B,55,76)		RS1/16S150J
	R 103 (A,64,79)	RESISTOR ARRAY	RAB4CQ220J
	R 104 (A,59,79)	RESISTOR ARRAY	RAB4CQ220J
	R 105 (A,52,82)	RESISTOR ARRAY	RAB4CQ470J
	R 106 (A,49,82)		RS1/16S100J
	R 107 (A,48,82)		RS1/16S100J
	R 108 (A,45,82)	RESISTOR ARRAY	RAB4CQ100J
	R 109 (B,51,66)		RS1/16S102J
	R 110 (B,53,66)		RS1/16S103J
	R 111 (B,51,71)		RS1/16S102J
	R 112 (B,53,71)		RS1/16S103J
	R 113 (A,42,49)		RS1/16S101J
	R 114 (A,45,51)	RESISTOR ARRAY	RAB4CQ680J
	R 115 (A,49,51)	RESISTOR ARRAY	RAB4CQ680J
	R 116 (B,47,52)		RS1/16S470J
	R 117 (B,51,52)		RS1/16S100J
	R 118 (A,45,48)	RESISTOR ARRAY	RAB4CQ473J
	R 119 (A,49,47)	RESISTOR ARRAY	RAB4CQ473J
	R 120 (B,45,52)		RS1/16S473J
	R 121 (B,49,52)		RS1/16S473J
	R 122 (A,58,49)		RS1/16S105J
	R 123 (A,55,49)		RS1/16S152J
	R 124 (B,58,61)		RS1/16S472J
	R 125 (B,65,46)		RS1/16S471J
	R 126 (B,64,52)		RS1/16S221J
	R 127 (B,62,52)		RS1/16S221J
	R 128 (B,63,61)		RS1/16S472J
	R 130 (A,67,55)	RESISTOR ARRAY	RAB4CQ220J
	R 131 (A,67,60)	RESISTOR ARRAY	RAB4CQ220J
	R 132 (A,67,65)	RESISTOR ARRAY	RAB4CQ220J
	R 133 (B,51,76)		RS1/16S0R0J
	R 141 (A,40,73)	RESISTOR ARRAY	ACN1275
	R 142 (A,40,71)	RESISTOR ARRAY	ACN1275
	R 143 (A,40,69)	RESISTOR ARRAY	ACN1275
	R 144 (A,40,67)	RESISTOR ARRAY	ACN1275
	R 145 (A,40,64)	RESISTOR ARRAY	ACN1275
	R 146 (A,40,62)	RESISTOR ARRAY	ACN1275
	R 147 (A,40,60)	RESISTOR ARRAY	ACN1275
	R 148 (A,40,58)	RESISTOR ARRAY	ACN1275
	R 151 (B,30,86)		RS1/16S100J
	R 152 (B,32,86)		RS1/16S100J
	R 153 (B,34,86)		RS1/16S101J
	R 154 (B,30,81)		RS1/16S103J
	R 155 (B,32,81)		RS1/16S103J
	R 156 (B,34,81)		RS1/16S103J
	R 157 (B,18,83)		RS1/16S473J
	R 161 (B,14,83)		RS1/16S102J
	R 167 (B,21,87)		RS1/16S0R0J
	R 168 (B,21,79)		RS1/16S0R0J
	R 169 (A,29,65)		RS1/16S0R0J
	R 170 (B,32,66)		RS1/16S0R0J
	R 171 (B,25,70)		RS1/16S100J
	R 172 (B,23,70)		RS1/16S100J
	R 173 (B,21,70)		RS1/16S101J
	R 174 (B,25,65)		RS1/16S103J
	R 175 (B,23,65)		RS1/16S103J
	R 176 (B,21,65)		RS1/16S103J
	R 177 (B,23,61)		RS1/16S473J
	R 181 (B,20,59)		RS1/16S102J
	R 191 (A,18,92)		RS1/10S0R0J
	R 192 (A,18,90)		RS1/10S0R0J
	R 193 (A,20,48)		RS1/10S0R0J
	R 194 (A,20,45)		RS1/10S0R0J
	R 201 (A,85,28)		RS1/16S470J
	R 202 (A,83,28)		RS1/16S470J
	R 204 (A,81,28)	RESISTOR ARRAY	RAB4CQ470J
	R 205 (A,78,28)	RESISTOR ARRAY	RAB4CQ470J

Mark	No.	Description	Part No.
R	206 (A,97,25)		RS1/16S100J
R	207 (A,93,28)		RS1/16S470J
R	208 (A,89,28)		RS1/16S470J
R	209 (A,86,25)		RS1/16S470J
R	210 (A,97,21)		RS1/16S0R0J
R	301 (A,55,42)		RS1/16S100J
R	302 (A,46,42)		RS1/16S101J
R	303 (A,44,42)		RS1/16S471J
R	304 (A,41,42)	CHIP RESISTOR	RS1/16S6800F
R	305 (A,39,43)		RS1/16S180J
R	307 (B,40,33)		RS1/16S100J
R	308 (B,42,33)		RS1/16S100J
R	309 (B,40,29)		RS1/16S100J
R	310 (B,43,24)		RS1/16S100J
R	311 (A,41,20)		RS1/16S472J
R	313 (A,53,17)		RS1/16S102J
R	314 (A,49,16)		RS1/16S472J
R	315 (B,58,33)		RS1/16S150J
R	331 (A,61,42)	RESISTOR ARRAY	RAB4CQ473J
R	332 (B,60,33)		RS1/16S473J
R	333 (A,64,37)	RESISTOR ARRAY	RAB4CQ473J
R	334 (A,64,29)	RESISTOR ARRAY	RAB4CQ473J
R	335 (A,64,26)	RESISTOR ARRAY	RAB4CQ473J
R	336 (A,56,18)	RESISTOR ARRAY	RAB4CQ473J
R	337 (A,50,18)	RESISTOR ARRAY	RAB4CQ473J
R	338 (A,47,18)	RESISTOR ARRAY	RAB4CQ473J
R	351 (A,28,48)		RS1/16S472J
R	352 (A,28,43)		RS1/16S472J
R	353 (A,26,46)		RS1/16S272J
R	354 (A,30,46)		RS1/16S272J
R	357 (A,32,46)		RS1/16S0R0J
R	358 (A,36,46)		RS1/16S0R0J
R	386 (B,18,38)		RS1/16S473J
R	391 (B,20,29)		RS1/10S0R0J
R	392 (B,23,29)		RS1/10S0R0J
R	401 (B,135,51)		RS1/16S100J
R	402 (A,136,42)		RS1/16S470J
R	403 (B,137,51)		RS1/16S470J
R	404 (A,138,42)		RS1/16S470J
R	405 (A,139,42)		RS1/16S470J
R	412 (B,152,65)		RS1/16S471J
R	413 (A,157,74)		RS1/16S132J
R	414 (A,157,71)		RS1/16S391J
R	415 (A,154,74)		RS1/16S151J
R	416 (A,154,71)		RS1/16S100J
R	417 (B,147,71)		RS1/16S103J
R	418 (B,145,71)		RS1/16S272J
R	419 (B,143,71)		RS1/16S272J
R	421 (B,157,74)		RS1/10S0R0J
R	422 (A,157,76)		RS1/10S0R0J
R	424 (B,132,73)		RS1/16S103J
R	425 (A,135,74)		RS1/16S330J
R	426 (A,133,74)		RS1/16S330J
R	428 (A,123,59)	RESISTOR ARRAY	RAB4CQ220J
R	429 (A,123,55)	RESISTOR ARRAY	RAB4CQ220J
R	432 (A,120,49)		RAB4CQ330J
R	433 (A,122,46)		RAB4CQ330J
R	434 (A,128,41)	RESISTOR ARRAY	RAB4CQ220J
R	435 (A,132,41)	RESISTOR ARRAY	RAB4CQ220J
R	437 (A,138,38)	RESISTOR ARRAY	RAB4CQ473J

Mark	No.	Description	Part No.
R	438 (B,95,53)		RS1/16S473J
R	440 (A,132,38)	RESISTOR ARRAY	RAB4CQ473J
R	441 (A,128,38)	RESISTOR ARRAY	RAB4CQ473J
R	442 (A,119,43)	RESISTOR ARRAY	RAB4CQ473J
R	443 (A,117,53)	RESISTOR ARRAY	RAB4CQ473J
R	444 (B,124,51)		RS1/16S473J
R	445 (B,124,55)		RS1/16S473J
R	446 (A,119,55)	RESISTOR ARRAY	RAB4CQ473J
R	447 (A,119,59)	RESISTOR ARRAY	RAB4CQ473J
R	448 (A,124,37)		RS1/16S473J
R	449 (A,124,39)		RS1/16S473J
R	451 (A,74,72)	RESISTOR ARRAY	RAB4CQ680J
R	453 (A,74,63)		RAB4CQ330J
R	454 (A,74,66)		RAB4CQ330J
R	455 (A,74,54)		RAB4CQ330J
R	456 (A,74,57)		RAB4CQ330J
R	457 (A,74,44)		RAB4CQ330J
R	458 (A,74,47)		RAB4CQ330J
R	460 (A,78,79)		RS1/16S330J
R	461 (A,163,62)		RS1/16S105J
R	462 (A,160,62)		RS1/16S102J
R	463 (A,159,65)		RS1/16S101J
R	501 (B,124,40)		RS1/16S101J
R	502 (B,124,46)		RS1/16S101J
R	504 (B,128,28)		RS1/16S102J
R	505 (B,122,32)		RS1/16S221J
R	508 (B,126,23)		RS1/16S101J
R	514 (B,110,22)		RS1/16S101J
R	517 (B,106,19)		RS1/16S100J
R	518 (B,104,19)		RS1/16S100J
R	519 (B,88,18)		RS1/16S100J
R	520 (B,82,23)		RS1/16S100J
R	521 (B,92,22)		RS1/16S101J
R	523 (B,90,22)		RS1/16S470J
R	524 (B,76,32)		RS1/16S101J
R	525 (B,80,32)		RS1/16S101J
R	526 (B,78,32)		RS1/16S101J
R	527 (B,85,33)		RS1/16S101J
R	530 (B,122,40)		RS1/16S101J
R	541 (B,129,43)		RS1/16S103J
R	542 (B,128,32)		RS1/16S223J
R	543 (B,124,32)		RS1/16S103J
R	544 (B,116,27)		RS1/16S472J
R	545 (B,118,27)		RS1/16S103J
R	546 (B,124,27)		RS1/16S103J
R	548 (B,120,23)		RS1/16S103J
R	549 (B,113,22)		RS1/16S103J
R	550 (A,102,23)		RS1/16S103J
R	551 (A,112,25)		RS1/16S103J
R	553 (A,104,22)		RS1/16S103J
R	555 (B,108,19)		RS1/16S222J
R	556 (B,102,19)		RS1/16S222J
R	557 (B,78,23)		RS1/16S222J
R	558 (B,80,23)		RS1/16S222J
R	559 (B,88,25)		RS1/16S473J
R	560 (B,84,26)		RS1/16S473J
R	562 (B,82,26)		RS1/16S473J
R	563 (B,80,26)		RS1/16S103J
R	564 (B,113,51)		RS1/16S103J
R	565 (B,122,47)		RS1/16S472J

Mark	No.	Description	Part No.
	R 566 (B,84,23)		RS1/16S103J
	R 571 (A,116,42)		RS1/16S473J
	R 572 (A,76,16)		RS1/16S470J
	R 573 (A,64,18)		RS1/16S470J
	R 574 (A,64,17)		RS1/16S472J
	R 575 (A,64,14)		RS1/16S470J
	R 576 (A,64,15)		RS1/16S103J
	R 577 (A,21,21)		RS1/16S103J
	R 584 (A,120,23)		RS1/16S0R0J
	R 702 (A,113,54)		RS1/16S103J
	R 704 (A,113,55)		RS1/16S103J
	R 705 (A,116,57)		RS1/16S103J
	R 706 (A,113,58)		RS1/16S103J
	R 707 (A,116,59)		RS1/16S470J
	R 708 (A,116,60)		RS1/16S470J
	R 709 (A,116,63)		RS1/16S1201F
	R 710 (A,116,62)		RS1/16S1201F
	R 711 (A,97,62)		RS1/16S1201F
	R 712 (A,97,64)		RS1/16S1201F
	R 713 (B,94,59)		RS1/16S470J
	R 714 (B,97,59)		RS1/16S103J
	R 716 (A,97,60)		RS1/16S103J
	R 718 (A,96,58)		RS1/16S103J
	R 719 (A,90,58)		RS1/16S471J
	R 721 (A,97,54)		RS1/16S0R0J
	R 731 (B,93,66)		RS1/16S1500F
	R 732 (B,91,66)		RS1/16S0R0J
	R 733 (A,91,74)		RS1/16S102J
	R 741 (B,98,66)		RS1/16S1500F
	R 742 (B,96,66)		RS1/16S0R0J
	R 743 (A,96,74)		RS1/16S102J
	R 751 (B,102,66)		RS1/16S1500F
	R 752 (B,100,66)		RS1/16S0R0J
	R 753 (A,100,74)		RS1/16S102J
	R 761 (B,107,66)		RS1/16S1500F
	R 762 (B,105,66)		RS1/16S3R3J
	R 763 (A,105,74)		RS1/16S102J
	R 771 (B,111,66)		RS1/16S1500F
	R 772 (B,109,66)		RS1/16S3R3J
	R 773 (A,109,74)		RS1/16S102J
	R 781 (B,116,66)		RS1/16S1500F
	R 782 (B,114,66)		RS1/16S3R3J
	R 783 (A,114,74)		RS1/16S102J
	R 901 (A,148,19)		RS1/16S330J
	R 902 (A,147,29)		RS1/16S2402F
	R 903 (B,148,26)		RS1/16S3002F
	R 904 (B,146,26)		RS1/16S0R0J
	R 905 (A,147,31)		RS1/16S561J
	R 906 (A,147,28)		RS1/16S222J
	R 907 (B,142,26)		RS1/16S1802F
	R 908 (B,144,26)		RS1/16S0R0J
	R 910 (B,135,15)		RS1/10S0R0J
	R 918 (A,142,28)		RS1/16S682J
	R 919 (A,142,24)		RS1/16S103J
	R 920 (A,136,32)		RS1/16S103J
	R 921 (A,132,24)		RS1/16S0R0J
	R 931 (B,74,24)		RS1/16S101J
	R 1002(A,69,22)		RS1/10S100J
	R 1101(B,88,73)		RS1/10S0R0J
	R 1102(B,86,73)		RS1/10S0R0J

CAPACITORS

Mark	No.	Description	Part No.
	C 101 (B,67,71)	CHIP CERAMIC C.	DCH1165
	C 102 (A,66,51)	CHIP CERAMIC C.	DCH1165
	C 103 (A,41,80)		DCH1201
	C 104 (A,38,50)		DCH1201
	C 105 (A,61,79)		CKSRYB105K16
	C 106 (A,57,79)		CKSRYB104K16
	C 107 (A,53,79)		CKSRYB104K16
	C 108 (A,50,79)		CKSRYB104K16
	C 109 (B,49,66)		CKSRYB103K50
	C 110 (A,46,79)		CKSRYB104K16
	C 111 (B,49,71)		CKSRYB103K50
	C 112 (A,64,51)		CKSRYB105K16
	C 113 (A,41,78)		CKSRYB105K16
	C 114 (B,43,71)		CKSRYB104K16
	C 115 (B,46,69)		CKSRYB104K16
	C 116 (B,43,67)		CKSRYB104K16
	C 117 (B,46,65)		CKSRYB105K16
	C 118 (B,43,62)		CKSRYB104K16
	C 119 (B,46,60)		CKSRYB104K16
	C 120 (B,43,58)		CKSRYB104K16
	C 121 (B,43,54)		CKSRYB105K16
	C 122 (A,42,51)		CKSRYB105K16
	C 123 (A,47,51)		CKSRYB104K16
	C 124 (A,52,51)		CKSRYB104K16
	C 125 (A,53,51)		CKSRYB104K16
	C 126 (A,55,51)		CKSRYB104K16
	C 127 (B,53,46)		CCSRCH120J50
	C 128 (B,60,46)		CCSRCH100D50
	C 129 (B,50,61)		CKSRYB105K16
	C 130 (B,56,61)		CKSRYB105K16
	C 131 (B,63,46)		CKSRYB103K50
	C 132 (A,61,51)		CKSRYB104K16
	C 133 (A,62,51)		CKSRYB105K16
	C 134 (A,67,58)		CKSRYB104K16
	C 135 (A,67,62)		CKSRYB104K16
	C 136 (A,67,63)		CKSRYB104K16
	C 137 (A,67,68)		CKSRYB104K16
	C 138 (A,67,72)		CKSRYB104K16
	C 139 (A,67,75)		CKSRYB104K16
	C 151 (A,34,82)		CKSRYB104K16
	C 152 (A,24,86)		CKSRYB104K16
	C 153 (A,39,85)		DCH1201
	C 171 (A,17,68)		CKSRYB104K16
	C 172 (A,24,70)		CKSRYB104K16
	C 173 (A,30,61)		DCH1201
	C 201 (A,86,35)		CKSRYB104K16
	C 202 (A,88,20)		CKSRYB104K16
	C 301 (A,44,15)	CHIP CERAMIC C.	DCH1165
	C 302 (A,66,45)	CHIP CERAMIC C.	DCH1165
	C 303 (A,40,26)		DCH1201
	C 304 (A,39,39)		DCH1201
	C 305 (A,34,39)		DCH1201
	C 306 (A,52,42)		CKSRYB104K16
	C 307 (A,50,42)		CKSRYB105K16
	C 308 (A,43,42)		CKSRYB103K50
	C 309 (A,40,45)		CKSRYB104K16
	C 310 (A,41,39)		CKSRYB105K16

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
C	311 (B,47,34)		CKSRYB104K16	C	455 (A,79,82)		CKSRYB104K16
C	312 (B,44,32)		CKSRYB105K16	C	461 (A,162,70)		CKSRYB104K16
C	313 (B,47,29)		CKSRYB104K16	C	462 (A,164,61)		CCSRCH100D50
C	314 (A,45,20)		CKSRYB105K16	C	463 (A,159,61)		CCSRCH120J50
C	315 (A,52,20)		CKSRYB104K16	C	501 (A,129,30)		CEVW101M16
C	316 (A,54,20)		CKSRYB104K16	C	502 (B,113,27)		CKSRYB104K16
C	317 (A,62,24)		CKSRYB105K16	C	503 (B,94,45)		CKSRYB104K16
C	318 (A,61,31)		CKSRYB104K16	C	504 (B,119,44)		CKSRYB104K16
C	319 (A,61,37)		CKSRYB105K16	C	505 (B,120,32)		CKSRYB103K50
C	351 (B,21,38)		CKSRYB104K16	C	511 (A,91,40)		CKSRYB104K16
C	401 (A,121,78)		CEVW101M16	C	512 (A,116,39)		CKSRYB105K16
C	402 (A,143,36)		CEVW101M16	C	513 (A,70,12)		CKSRYB104K16
C	403 (A,135,42)		CKSRYB104K16	C	514 (A,21,18)		CKSRYB104K16
C	404 (A,141,42)		CKSRYB105K16	C	701 (A,92,52)		CEVW101M16
C	405 (A,146,42)		CKSRYB104K16	C	702 (A,99,51)		CKSRYB104K16
C	406 (A,147,42)		CKSRYB104K16	C	703 (A,110,51)		CKSRYB104K16
C	407 (A,155,48)		CKSRYB104K16	C	704 (A,113,60)		CKSRYB104K16
C	408 (A,155,53)		CKSRYB104K16	C	705 (A,116,65)		CKSRYB104K16
C	409 (A,155,55)		CKSRYB104K16	C	706 (B,108,59)		CKSRYB104K16
C	410 (A,155,62)		CKSRYB104K16	C	707 (B,106,59)		CKSRYB104K16
C	411 (A,155,64)		CKSRYB104K16	C	708 (B,104,59)		CKSRYB104K16
C	412 (B,154,65)		CKSRYB103K50	C	709 (B,99,60)		CKSRYB104K16
C	413 (A,159,74)	CHIP CAPACITOR	CKSRYB823K25	C	710 (B,102,59)		CKSRYB105K16
C	414 (A,159,70)		CKSRYB103K50	C	711 (A,88,64)		CEVW101M16
C	415 (A,156,74)		CKSRYB824K10	C	712 (A,97,65)		CKSRYB104K16
C	416 (A,156,70)		CKSRYB393K16	C	713 (A,93,58)		CKSRYB103K50
C	417 (A,151,76)		DCH1201	C	714 (A,95,57)		CKSRYB104K16
C	418 (A,155,66)		CKSRYB104K16	C	731 (A,91,72)		CKSRYB104K16
C	421 (A,149,74)		CKSRYB102K50	C	741 (A,96,72)		CKSRYB104K16
C	422 (A,148,74)		CKSRYB104K16	C	751 (A,100,72)		CKSRYB104K16
C	423 (A,146,74)		CKSRYB104K16	C	761 (A,105,72)		CKSRYB104K16
C	424 (A,145,74)		CKSRYB104K16	C	771 (A,109,72)		CKSRYB104K16
C	425 (A,140,74)		CKSRYB104K16	C	781 (A,114,72)		CKSRYB104K16
C	426 (A,138,74)		CKSRYB104K16	C	901 (A,74,21)		CKSRYB105K16
C	427 (A,137,74)		CKSRYB104K16	C	902 (A,75,24)		CKSQYB225K10
C	428 (A,143,74)		CKSRYB104K16	C	903 (A,137,12)		DCH1201
C	429 (A,141,78)		CKSRYB104K16	C	905 (A,144,21)		DCH1201
C	430 (A,141,82)		CEVW100M16	C	906 (A,150,21)		CKSRYB105K16
C	431 (A,146,78)		CKSRYB104K16	C	907 (A,145,30)		CCSRCH821J50
C	432 (A,146,82)		CEVW100M16	C	909 (A,145,27)		CKSRYB472K50
C	433 (A,137,79)		CKSRYB105K16	C	910 (A,143,24)		CKSRYB103K50
C	434 (A,131,81)		CEVW101M16	C	911 (B,149,19)		DCH1201
C	435 (B,140,61)		CKSRYB103K50	C	912 (A,159,19)		DCH1201
C	436 (B,140,65)		CKSRYB103K50	C	913 (A,159,21)		DCH1201
C	437 (B,142,61)		CKSRYB104K16	C	915 (A,140,24)		CKSRYB104K16
C	438 (B,142,65)		CKSRYB104K16	C	921 (B,135,20)		CKSRYB105K16
C	439 (B,144,61)		DCH1201	C	922 (B,129,22)		CKSQYB225K10
C	440 (B,144,65)		DCH1201	C	923 (B,162,37)		CKSRYB105K16
C	441 (B,147,56)		CKSRYB104K16	C	924 (B,158,38)	CHIP CERAMIC C.	DCG1028
C	442 (B,147,61)		CKSRYB104K16	C	925 (B,84,16)		CKSRYB105K16
C	443 (B,147,65)		CKSRYB104K16	C	926 (B,76,11)		CKSRYB103K50
C	445 (A,123,66)		CKSRYB104K16	C	927 (B,77,16)		CKSQYB225K10
C	446 (A,123,63)		CKSRYB104K16	C	928 (A,161,34)		CKSRYB105K16
C	447 (A,123,57)		CKSRYB104K16	C	929 (A,163,44)		CKSQYB225K10
C	448 (A,123,49)		CKSRYB104K16	C	1001(B,132,15)		CKSRYB104K16
C	449 (A,124,46)		CKSRYB104K16	C	1002(A,131,13)		CEVW101M16
C	451 (A,79,69)		CKSRYB104K16	C	1025(A,80,16)		CKSRYB104K16
C	452 (A,79,59)		CKSRYB104K16	C	1026(A,80,17)		CKSRYB102K50
C	453 (A,79,50)		CKSRYB104K16	C	1028(B,124,12)		CKSRYB104K16
C	454 (A,77,40)		CKSRYB104K16	C	1029(B,126,12)		CKSRYB102K50

Mark	No.	Description	Part No.
C	1030(B,123,19)		CCSRCH101J50
C	1031(A,80,14)		CCSRCH101J50

AL USB ASSY(VSX-LX50 ONLY)

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	701 (A,35,38)	USB MEDIA CONTROL IC	TCC8600-00X-EA-UG
⚠ IC	702 (A,63,28)	IC	NJM2872BF18
⚠ IC	703 (A,84,25)	IC	NJM2886DL3-33
IC	741 (A,64,16)	IC	TC7SZ125FU
IC	761 (A,67,47)	SD-RAM(64M)	HY57V641620ETP-H
IC	762 (A,90,42)	FLASH ROM	AYW7146
IC	771 (A,67,22)	LOAD SWITCHING	AAT4618IGV-0.5-1
IC	951 (A,59,17)	L-MOS AND GATE	TC7SET08FUS1
Q	771 (A,33,24)	DIGITAL TRANSISTOR	DTC143EUA
L	701 (A,41,54)	INDUCTOR	LCTC100K1608
L	702 (A,46,53)	CHIP SOLID INDUCTOR	QTL1013
L	703 (A,23,54)	CHIP SOLID INDUCTOR	QTL1013
L	704 (A,21,29)	CHIP SOLID INDUCTOR	QTL1013
L	731 (A,43,59)	CHIP FERRITE BEADS	VTL1169
L	733 (A,36,54)	COIL	VTH1043
L	741 (A,63,19)	CHIP SOLID INDUCTOR	QTL1013
L	761 (A,74,38)	CHIP SOLID INDUCTOR	QTL1013
L	762 (A,90,57)	CHIP SOLID INDUCTOR	QTL1013
L	763 (A,47,16)	CHIP SOLID INDUCTOR	QTL1013
L	952 (A,57,14)	CHIP SOLID INDUCTOR	QTL1013
X	702 (A,49,46)	CRYSTAL OSCILLATOR	CSS1614
CN	701 (A,39,60)	PLUG(4P)	KM200NA4
CN	702 (A,87,16)	11P SOCKET	XKP3076

RESISTORS

Mark	No.	Description	Part No.
R	702 (A,48,39)		RS1/16SS101J
R	703 (A,50,40)		RS1/16SS101J
R	704 (A,42,46)		RS1/16SS472J
R	705 (A,25,37)		RS1/16SS472J
R	707 (A,36,49)		RS1/16SS473J
R	708 (A,40,53)		RS1/16SS101J
R	709 (A,41,47)		RS1/16SS103J
R	710 (A,50,39)		RS1/16SS101J
R	711 (A,48,37)		RS1/16SS101J
R	712 (A,29,48)		RS1/16SS101J
R	713 (A,30,49)		RS1/16SS101J
R	714 (A,31,48)		RS1/16SS101J
R	717 (A,22,30)		RS1/16SS101J
R	718 (A,23,30)		RS1/16SS101J
R	719 (A,26,47)		RS1/16SS101J
R	720 (A,27,49)		RS1/16SS101J
R	724 (A,31,51)		RS1/16SS472J
R	725 (A,33,53)		RS1/16SS472J
R	726 (A,34,54)		RS1/16SS472J
R	727 (A,25,41)		RS1/16SS220J
R	728 (A,32,49)		RS1/16SS101J
R	729 (A,51,37)		RS1/16SS101J
R	732 (A,30,60)		RS1/16S0R0J
R	734 (A,30,61)		RS1/16S0R0J
R	735 (A,38,52)		RS1/16SS153J
R	736 (A,34,51)		RS1/16SS153J
R	737 (A,37,51)		RS1/16SS100J
R	738 (A,35,51)		RS1/16SS100J
R	739 (A,86,20)		RS1/16SS221J
R	740 (A,33,50)		RS1/16SS101J
R	741 (A,66,19)		RS1/16SS560J
R	742 (A,77,23)		RS1/16SS101J
R	743 (A,75,23)		RS1/16SS101J
R	744 (A,73,23)		RS1/16SS101J
R	745 (A,88,19)		RS1/16SS472J
R	747 (A,45,41)		RS1/16S225J
R	748 (A,46,45)		RS1/16SS470J
R	752 (A,41,19)		RS1/16SS103J
R	756 (A,36,15)		RS1/16SS103J
R	763 (A,88,58)		RS1/16SS473J
R	771 (A,71,20)		RS1/16SS101J
R	772 (A,71,21)		RS1/16SS104J
R	951 (A,40,57)		RS1/16SS182J
R	952 (A,38,55)		RS1/16SS332J
R	953 (A,25,28)		RS1/16SS182J
R	954 (A,25,29)		RS1/16SS332J
R	955 (A,56,22)		RS1/16SS182J
R	956 (A,26,49)		RS1/16SS332J
R	958 (A,60,20)		RS1/16SS101J

CAPACITORS

Mark	No.	Description	Part No.
C	701 (A,29,28)		CKSSYB104K10
C	702 (A,30,28)		CKSSYB471K50
C	703 (A,32,28)		CKSSYB104K10
C	704 (A,33,28)		CKSSYB471K50
C	705 (A,36,27)		CKSSYB104K10
C	706 (A,37,27)		CKSSYB471K50
C	707 (A,40,27)		CKSSYB104K10
C	708 (A,39,27)		CKSSYB471K50
C	709 (A,43,47)		CKSSYB104K10
C	710 (A,43,48)		CKSSYB471K50
C	711 (A,42,50)		CKSSYB104K10
C	712 (A,44,50)		CKSSYB471K50
C	713 (A,38,49)		CCSRCH331J50
C	714 (A,42,52)		CKSQYB225K10
C	715 (A,41,49)		CKSRYB122K50
C	716 (A,47,36)		CKSSYB104K10
C	717 (A,47,32)		CKSSYB104K10
C	718 (A,47,33)		CKSSYB471K50
C	719 (A,25,45)		CKSSYB471K50
C	720 (A,26,45)		CKSSYB104K10
C	721 (A,24,47)		CEJQ101M6R3
C	723 (A,23,33)		CKSSYB471K50
C	724 (A,24,34)		CKSSYB104K10
C	726 (A,21,41)		CKSSYB104K10
C	727 (A,26,39)		CKSSYB471K50
C	728 (A,24,39)		CKSSYB104K10
C	729 (A,25,35)		CKSSYB471K50
C	730 (A,65,27)		CKSSYB103K16
C	731 (A,27,54)		CEJQ101M16
C	732 (A,34,56)		CKSRYB104K16
C	733 (A,43,57)		CKSRYB104K16
C	734 (A,48,36)		CKSSYB471K50
C	735 (A,23,44)		CKSSYB103K16
C	736 (A,26,30)		CKSSYB471K50
C	739 (A,46,50)		CCSRCH100D50
C	740 (A,46,47)		CCSRCH471J50
C	741 (A,92,19)		CEJQ101M16

Mark	No. Description	Part No.
	C 742 (A,92,24)	CKSRYB104K16
	C 743 (A,93,27)	CKSQYB225K10
	C 744 (A,97,26)	CEJQ470M10
	C 745 (A,65,31)	CKSQYB105K16
	C 746 (A,67,28)	CKSQYB475K6R3
	C 747 (A,34,48)	CKSSYB104K10
	C 748 (A,33,48)	CKSSYB471K50
	C 751 (A,45,17)	CKSSYB104K10
	C 752 (A,62,16)	CKSSYB104K10
	C 761 (A,76,39)	CKSSYB104K10
	C 762 (A,77,39)	CKSSYB471K50
	C 763 (A,71,39)	CKSSYB471K50
	C 764 (A,67,40)	CKSSYB471K50
	C 766 (A,57,40)	CKSSYB471K50
	C 767 (A,90,55)	CKSSYB104K10
	C 768 (A,90,54)	CKSSYB471K50
	C 769 (A,43,55)	CKSRYB104K16
	C 771 (A,71,25)	CKSQYB105K16
	C 773 (A,64,23)	CKSRYB104K16
	C 952 (A,57,17)	CKSRYB104K16

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service part.